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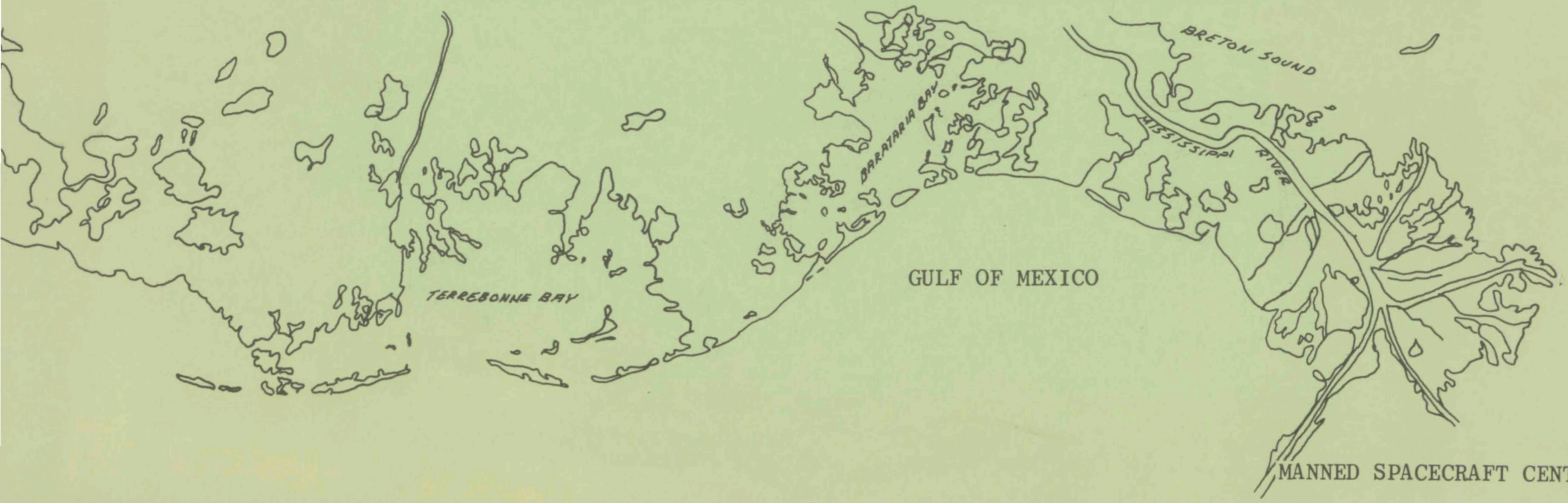
SEA REMOTE SENSING PROGRAM

TERREBONNE - BARATARIA BAY I REMOTE SENSING STUDY MAY 5, 1972

PART 1 SURFACE MEASUREMENTS



MANNED SPACECRAFT CENTER

TERREBONNE/BARATARIA I REMOTE SENSING STUDY

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PARTICIPANTS

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    Earth Resources Laboratory
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U. S. Corps of Engineers - New Orleans, Louisiana

This report was compiled by Jerry Brashier, W. L. Beacht, James Halbach, and G. K. Stuckey of Lockheed Electronics Company.

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LIST OF MAPS
(BACK POCKET)

1. Terrebonne/Barataria I Flight Line and Station Map

2. Terrebonne/Barataria I Salinity Maps,* 5 May 1972

3. Terrebonne/Barataria I Surface Water Temperature Maps,* 5 May 1972

4. Terrebonne/Barataria I Chlorophyll Maps, * 5 May 1972

* Terrebonne Bay and Barataria Bay listings were done on separate maps.

INTRODUCTION

The Terrebonne/Barataria Bay I experiment was performed on May 5, 1972, as a cooperative venture of the Earth Resources Laboratory (ERL), the New Orleans Corps of Engineers (NOCOE), the Louisiana Wildlife and Fisheries (LWF) and Louisiana State University (LSU). Much of the mission planning and ground truth data compilation was done or directed by the Lockheed Electronics Company, the support contractor to ERL. The purpose of the experiment was to develop techniques for water and marsh parameter measurements which could help assess or predict man's impact upon the Terrebonne and Barataria Bay regions.

The experiment consisted of simultaneous collection of remote aerial, ground, and atmospheric information. Remote data was gathered by two aircraft, the Lockheed Electra Earth Resources Aircraft from the Manned Spacecraft Center at Houston, and an E-18 Twin Beech leased by ERL. Ground information was gathered by 33 boats, 30 of which were supplied by NOCOE, the other three by LWF. Atmospheric information was gathered from weather stations adjacent to the experiment area and from regional information supplied by the National Weather Service. Water analysis was done by scientists from Louisiana State University.

Remotely gathered data consisted of color and color IR imagery, thermal imagery and microwave radiometric measurements at 21cm wavelength. Color, color IR and thermal imagery were obtained three times at 6 hour intervals to provide sequential data for circulation analysis. The 21cm data is being used to evaluate a technique for remote salinity measurement.

The ground truth data gathered by the boats, and the atmospheric data are presented in this report. Analysis of the remotely sensed data will be presented later in separate ERL reports. The data in this report is presented in a series of tables and figures. Data acquisition procedures are listed in the"Material and Methods" section of the report. Further explanatory material, including a general discussion of the figures and tables is given in the "Description" section.

MATERIALS AND METHODS

Field Procedures

Field measurements were taken at thirty-five of the scheduled thirty-seven stations on 5 May 1972. Stations 5 and 6 were not reached. *

Surface water temperature measurements were made at fifteen minute intervals and at flyover by taking bucket samples and immersing a mercury bulb thermometer in the center of the bucket (Table 3).

Air temperature measurements were taken at thirty minute intervals and flyover with mercury bulb thermometer as near the water surface as possible on the shady side of the boat (Table 3).

Relative humidity values were obtained with sling psychrometers on hourly intervals and flyover (Table 3).

Wind direction, wind speed, and sea state observation were estimated by boat operators at hourly intervals and flyover (Table 3).

Current speed and direction were measured on hourly intervals. A neutrally buoyant float (partially filled plastic bottle) was attached to a 75 foot cord. The time required for the float to reach the end of the cord after being dropped from the boat was measured and recorded. An azimuth was determined with the aid of a compass (Table 3).

The time (CDT) of flyover for each flight line was:

Line 1	09:03:50	to	09:08:10
Line 2	09:12:40	to	09:16:30
Line 3	09:20:10	to	09:24:00
Line 4	09:28:05	to	09:45:20
Line 5	09:55:20	to	10:14:20
Line 6	10:23:20	to	10:30:30
Line 6	11:09:25	to	11:16:50
Line 7	11:18:25	to	11:26:40
Line 8	11:30:10	to	11:37:15

* See Flight Line and Station Map in rear pocket.

Field Procedures Cont'd.

Line 9	11:40:30	to	11:47:50
Line 10	11:51.25	to	11·58:40
Line 11	12:14:15	to	12:15:55
Line 12	12:24:15	to	12:28:25
Line 13	12:31:15	to	12:36:00
Line 14	12:41:00	to	12:46:15
Line 15	12:50.20	to	12:57:25
Line 16	13:01:10	to	13:10:45
Line 17	13:21:50	to	13:30:30
Line 18	13:34:10	to	13:42:15
Line 19	13:45:40	to	13:54:10
Line 20	14:04:20	to	14:12:00
Line 21	14:17:40	to	14:28:10
Line 22	14:30:20	to	14:39:45
Line 23	14:57:55	to	14:04:45
Line 24	15:08:45	to	15:13:50

Below is a nomenclature list for field measurement computations and listings made with the Univac 1108. The field data is presented in Table 3.

Column	Abbreviation	Name
1	STAT NUMB	Station Number
2	TIME CDT	Time as Central Daylight Time

continued)

Column	Abbreviation	Name
3	SAMP DEPH FT	Sample Depth in Feet
4	WATER TEMP DEG C	Water Temperature in Degrees Centigrade
5	SALNTY PTS/K	Salinity in Parts Per Thousand
6	AIR TEMP DG C	Air Temperature in Degrees Centigrade
7	RELAT HUMDY PERCT	Relative Humidity in Percent
8	WIND DIR DEG	Wind Direction in Degrees
9	WIND SPEED KN	Wind Speed in Knots
10	SECH VISB FT	Secchi Visibility in Feet
11	SEA STAT FT	Sea State in Feet
12	CURRT KN	Current in Knots
13	CUR DIR DEG	Current Direction in Degrees
14	WATER DEPTH FT	Water Depth in Feet
15	BOTL NO.	Bottle Number

MATERIALS AND METHODS

Laboratory Procedures

Water samples were taken in pint polypropylene bottles for chlorophyll and salinity. The remaining analyses were performed on samples taken in glass bottles because of possible absorption by polypropylene. Plastic buckets (2 1/2 gallons) were used in collecting surface samples. All samples were kept cool and dark in styrofoam ice chests and delivered to Mississippi Test Facility or Louisiana State University.

The technique used for determination of chlorophyll, which gives a measure of the phytoplankton present, was essentially that proposed by SCOR-UNESCO working group 17 in Determination of Photosynthetic Pigments in Sea-Water, UNESCO, Paris 1969. Each water sample for chlorophyll analysis was filtered through a millipore 0.45 micron acetate filter. The filters and their residue were stored at -15°C over activated silica gel. Each filter and its residue was ground in a teflon tissue grinder. Ninety percent acetone was used as the extracting agent. The acetone homogenates were stored in the dark for ten minutes, then centrifuged at 2000 g for approximately one hour instead of the recommended ten minutes because the extract was too turbid. The volume of each extract was recorded and the absorption spectrum of the chlorophyll extract measured against a blank acetate filter dissolved in 90% acetone. The measurements were made on a Cary 17 Spectrophotometer.

The absorption spectra were indexed at 750, 663, 645 and 630 mμ. The absorption at 663, 645 and 630 mμ was corrected by comparison with the absorption of the "reference blank" at 750 mμ. These corrected values are used in the following formula to determine chlorophyll A.

$$\text{chl } A = (11.64 \times e_{663} - 2.16 \times e_{645} + 0.10 \times e_{630}) \times \frac{\text{ext (ml)}}{\text{vol (l)}} \times \frac{1}{\text{absorption cell light path (cm)}}$$

where e_{663} = absorption at 663 mμ

Laboratory Procedures Cont'd.

e_{645} = absorption at 645 m

e_{630} = absorption at 630 m

ext = extract volume

vol = volume of sample

Salinities were run with a Beckman Model RS-7B Induction Salinomater. Standard Copenhagen (35 °/oo) sea water was used as a reference, and salinities were determined from the conductivity ratio of the sample of that of the standard.

The remaining water chemistry was performed by scientists from the center for Wetland Resources, Louisiana State University. Their methods are listed below.

Analytical Procedure for Water

Kjeldahl - N (organic -N + NH_4^+ -N) was obtained according to the procedure described by Bremmer (1).

Available PO_4^{-3} -P was measured by the phosphy-molybdate complex formed followed by extracting with ethyl acetate. The complex was then reduced with ascorbic acid (3, 4).

Chlorinity was measured by titrating with standard $AgNO_3$ using K- Chromate as indicator. Salinity (°/ooS) was calculated according to the formula: °/ooS = 0.030 + 1.805 cl °/oo.

Ca and Mg were determined by a Perkin-Elmer 303 atomic absorption spectrophotometer after appropriate dilution.

References used by Center for Wetland Resources

1. Bremmer, J. M. "Inorganic Forms of Nitrogen." Methods of Soil Analysis. American Society of Agronomy. 1196pp. 1965.

Laboratory Procedures Cont'd.

2. Vogel, A. I. A Textbook of Quantitative Analysis, Theory and Practices. Longmans Publishers. 643pp. 1960.

3. Strickland, J.D.H. and T.R. Parsons. "A Manual of Sea Water Analysis". Bull. No. 125. Fisheries Research Board of Canada. pp. 29-42. 1965.

4. Ho. C.L. "Chemistry of Water Sediments in Barataria Bay". Coastal Studies Bull. No. 5. Louisiana State University, Baton Rouge, Louisiana. pp. 41-56. 1970.

Below is a nomenclature list for laboratory measurement computations and listings made with the Univac 1108. The laboratory data is presented in Table 4.

Column	Abbreviation	Name
1	STA NUM	Station Number
2	TIME CDT	Time as Central Daylight Time
3	SMPL DPTH FT	Sample Depth in Feet
4	SALIN PTS/K	Salinity in Parts Per Thousand (Salinometer)
5	SALIN PTS/K	Salinity in Parts Per Thousand (Titration)
6	TOTAL N MG/L	Total Nitrogen in Milligram Per Liter
7	TOTAL P MG/L	Total Phosphorus in Milligrams Per Liter
8	CHLORINITY PTS/K	Chlorinity in Parts Per Thousand
9	CA MG/L	Calcium in Milligrams Per Liter
10	MG MG/L	Magnesium in Milligrams Per Liter
11	CHLRP HYL A m/m^3	Chlorophyll A in Milligrams Per Cubic Meter

DESCRIPTION

Figure 1 and Table 1 represent National Weather Service observations and show no significant air mass changes for the duration of the mission.

Meteorological data were also taken from Boothville, Louisiana and Mississippi Test Facility during the mission. Figures 2 and 3 show Skew T-Log P diagrams made from the observations at the two sites and represent maximum available data to 10,000 feet. These charts were selected because from them unreported meteorological quantities can be easily determined (see pages 9-11).

Table 2 gives the location of each station and the scheduled flyover sample time. Field and laboratory measurements are represented by Tables 3 and 4 respectively.

Figure 4 shows a tide chart from data taken by the New Orleans Corps of Engineers on mission day. As indicated by the narrow tide range, this chart is probably not representative of tides in Barataria Bay because this particular gauge is located several miles north of Barataria Bay.

Located in the rear pocket are maps showing flight lines and stations, surface water temperature, surface water salinity, and chlorophyll measurements.

DETERMINATION OF UNREPORTED METEOROLOGICAL QUANTITIES FROM PLOTTED SOUNDINGS

Two curves are usually plotted and drawn on the Skew-T chart for each radiosonde. One represents the free-air temperature (solid), the other the dew-point temperature (dashed). This description is a brief outline of procedures for determining certain unreported meteorological quantities which may be evaluated on the Skew-T chart from such a sounding.

MIXING RATIO is the ratio of the mass of water vapor to the mass of dry air. It is expressed in parts per thousand, usually grams of water vapor per kilograms of dry air. It is read from the saturation mixing-ratio line that crosses the dew-point curve at that pressure.

SATURATION MIXING RATIO is the mixing ratio a sample of air would have if saturated. Read the saturation mixing-ratio line that crosses the temperature curve at that pressure.

RELATIVE HUMIDITY is the ratio of the actual mixing ratio to the saturated mixing ratio for a given volume of air. Figure A shows three steps to graphically determine the relative humidity at the 700 mb level from the Skew-T chart.

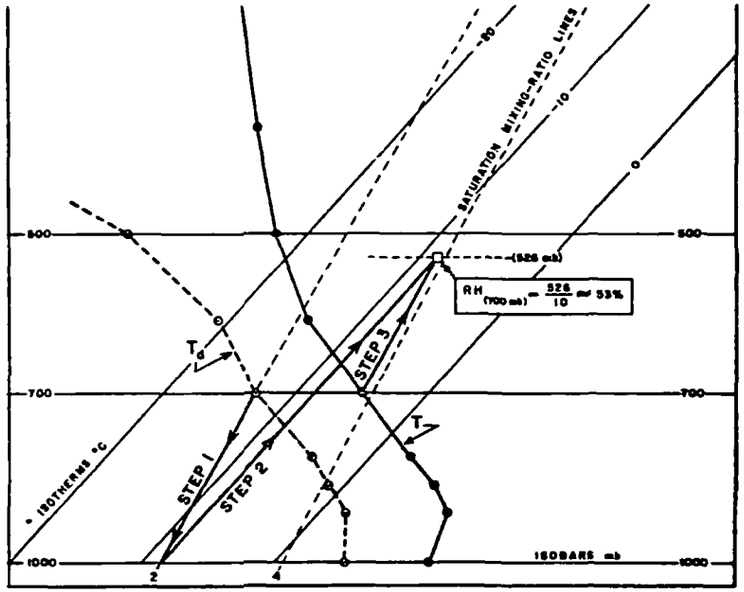
VAPOR PRESSURE is that part of the atmospheric pressure which is due to water vapor. Vapor pressure is determined by following the dew point isotherm to the 622 mb pressure level, as shown in Figure B for the 700 mb dew point. The value of the saturation mixing ratio line at 622 mb is the vapor pressure in mb.

SATURATION VAPOR PRESSURE is the partial pressure which water vapor would contribute to the total atmospheric pressure if the air were saturated. Figure B shows the arrows on the temperature isotherm to the 622 millibar level. The level of the saturation mixing-ratio line through this point gives the saturation vapor pressure in millibars at the given pressure.

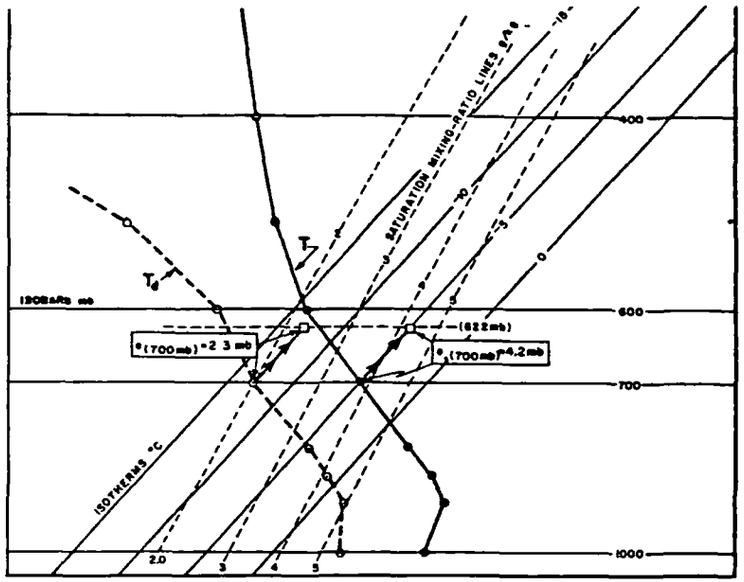
WET-BULB TEMPERATURE is the lowest temperature to which a volume of air at constant pressure can be cooled by evaporating water into it. Figure C shows the method of finding the wet-bulb temperature at a given pressure on the sounding. 1. From the dew-point curve at the given pressure draw a line upward along a saturation mixing-ratio line. 2. From the temperature curve at the given pressure, draw a line upward along a dry adiabat until it intersects the line in step 1. 3. From this point of intersection,

follow a saturation adiabat back to the given pressure. The isotherm value at this pressure is equal to the wet-bulb temperature.

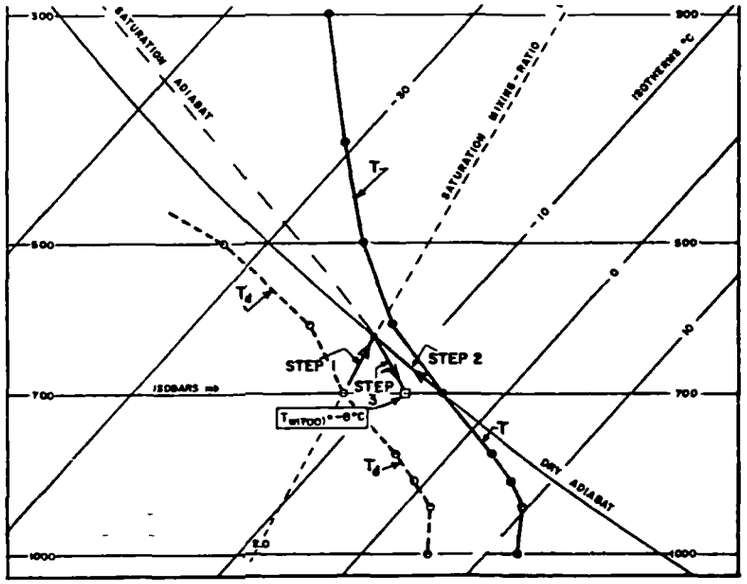
VIRTUAL TEMPERATURE of moist air is the temperature at which a corresponding sample of dry air would have the same density as the moist air at the same pressure. At a given pressure on a sounding, the difference between the observed and virtual temperatures is approximately equal to 1/6 of the numerical value of the saturation mixing-ratio line passing through the dew-point curve at that pressure. An example of the relationship between observed and virtual temperature curves is shown in Figure D.



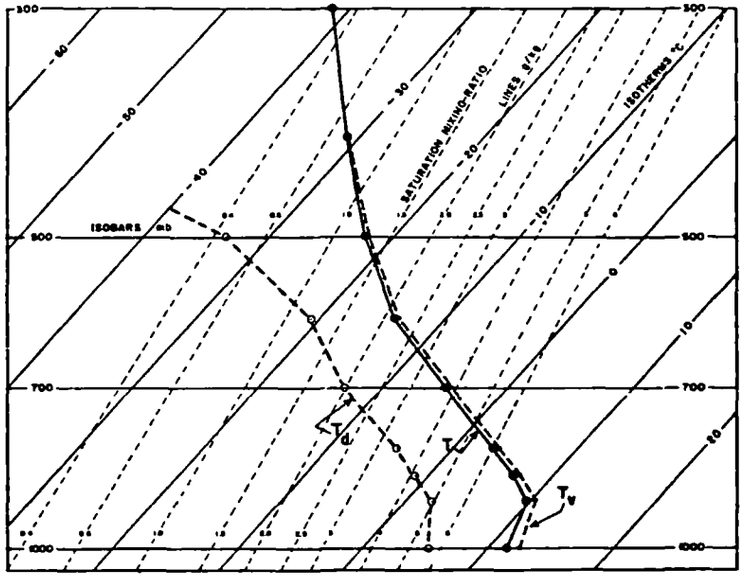
A PROCEDURE FOR FINDING RELATIVE HUMIDITY



B DETERMINATION OF THE VAPOR PRESSURE (e) AND THE SATURATION VAPOR PRESSURE (e_s)



C DETERMINATION OF THE WET BULB TEMPERATURE (T_w)



D COMPARISON BETWEEN THE OBSERVED AND VIRTUAL TEMPERATURES

FIGURES A, B, C, and D

FRIDAY, 5 May 1972

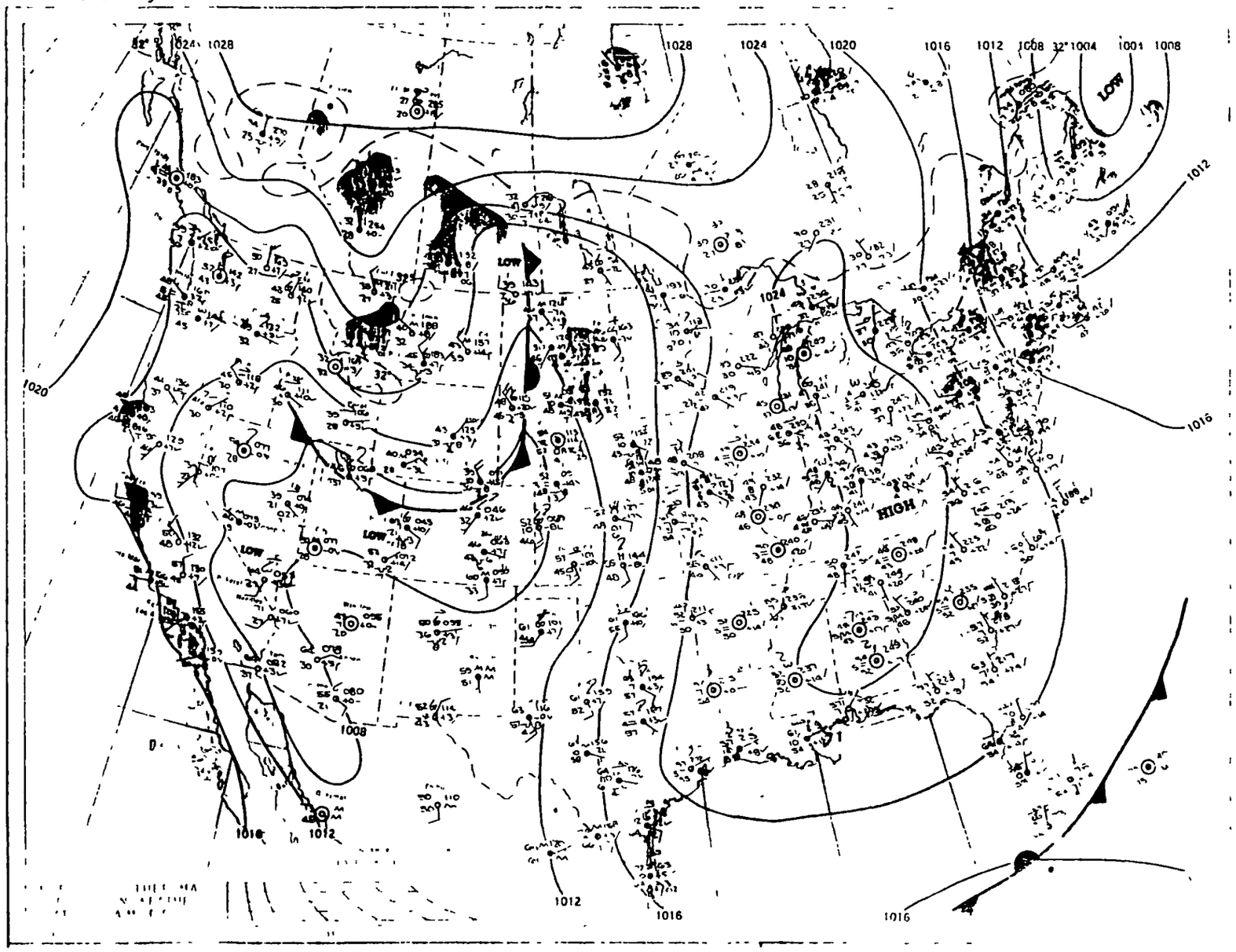


FIGURE 1. SURFACE WEATHER MAP AND STATION WEATHER AT 0700 A.M. E.S.T.

Pressure	Temp.	Dew Point	Height
Millibars	Centigrade		Meters
1024.0	23.2	11.9	0
983.6	19.8	10.5	345
944.9	16.3	9.1	691
933.0	15.2	8.6	801
906.8	12.9	8.4	1040
887.0	11.0	8.3	1227
874.3	12.2	-4.2	1347
873.0	12.3	-5.6	1360
845.5	13.1	-7.3	1627
839.0	13.3	-7.7	1693
818.5	12.5	-4.8	1901
815.0	12.3	-4.3	1937
791.4	11.4	-7.1	2182
765.0	10.4	-10.2	2465
756.0	10.1	-11.4	2564
738.3	8.5	-11.7	2757
711.9	6.0	-12.1	3056
686.5	3.5	-12.6	3354
677.0	2.6	-12.8	3468

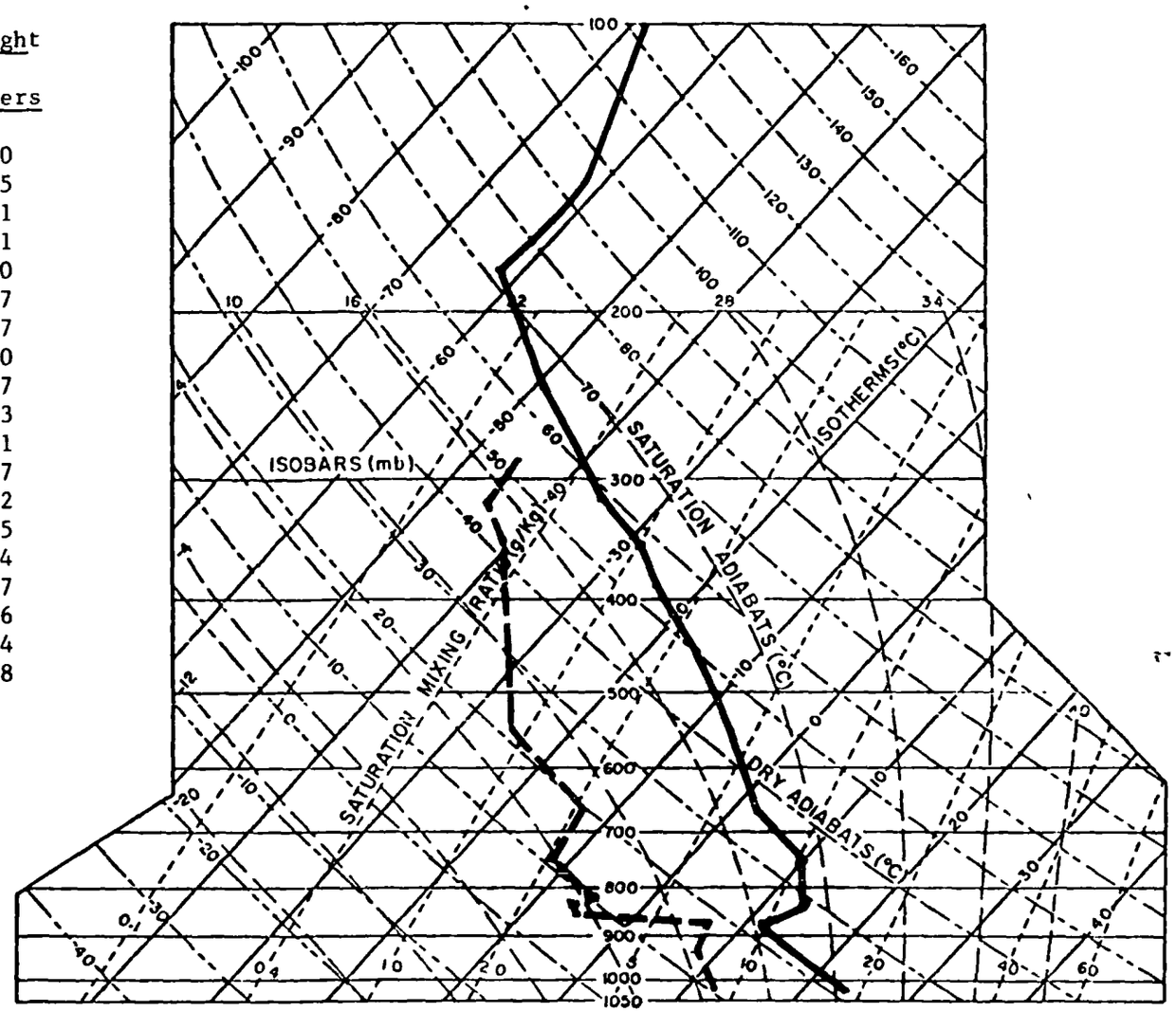


FIGURE 2 . Machine processed radiosonde data available from Bootheville, La. 1500 GMT, 5 May 1972

SKEW T - Log P diagram with dashed lines plotting dewpoint and solid lines plotting temperature.

Pressure	Temp.	Dew Point	Height
Millibars	Centigrade		Meters
1023.0	24.0	8.8	0
1016.0	21.4	6.0	59
993.1	19.5	5.0	255
962.0	16.8	3.8	528
959.0	16.5	3.7	555
930.0	14.5	0	815
927.4	14.6	-.2	838
923.0	14.9	-.9	879
897.4	13.4	-3.4	1115
868.2	11.7	-6.2	1393
864.0	11.4	-6.6	1434
840.8	11.7	-6.8	1662
835.0	11.8	-6.8	1720
813.3	11.3	-5.9	1939
794.0	10.8	-5.1	2140
786.4	10.3	-5.7	2219
760.2	8.5	-8.0	2498
735.0	6.6	-10.3	2777
717.0	5.3	-12.0	2982
710.5	4.6	-12.2	3056
689.0	2.6	-13.0	3305
686.5	2.5	-13.5	3334
678.0	2.2	-14.9	3435

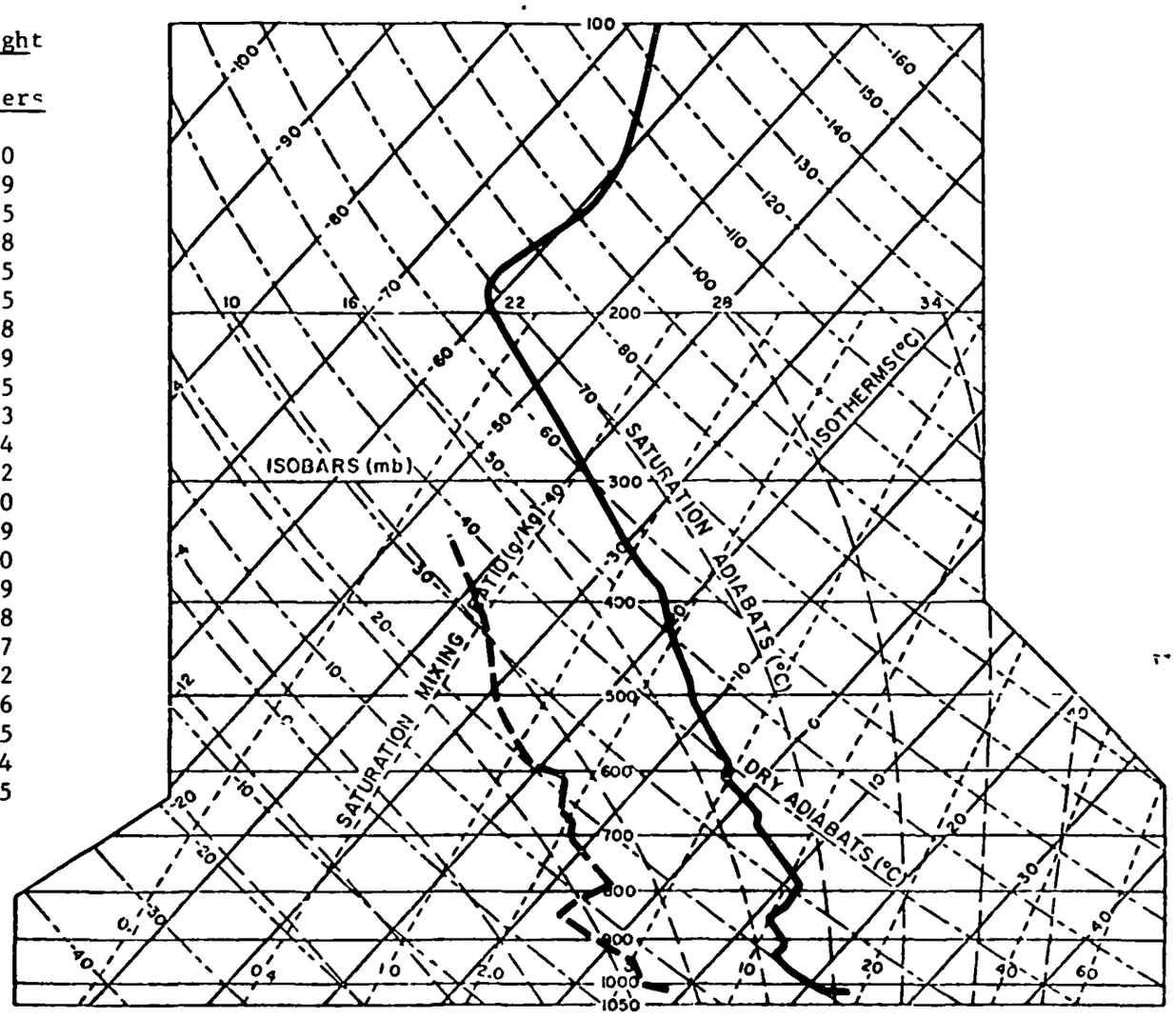


FIGURE 3 . Machine processed radiosonde data available from Mississippi Test Facility 1500 GMT, 5 May 1972

SKEW T - Log P diagram with dashed lines plotting dewpoint and solid lines plotting temperature.

TABLE 1
NATIONAL WEATHER SERVICE
SURFACE METEOROLOGICAL OBSERVATIONS
5 MAY 1972 0900 C.D.T. - 1500 C.D.T.

TIME C.D.T	STATION	PRESSURE MB	TEMPERATURE F.	TEMPERATURE C.	DEW POINT F.	DEW POINT C.	R.H. %	WIND DIRECTION	KNOTS
0900	Pensacola, Fla.	1024.1	69	20.6	49	9.4	48.9	60	9
	N.O. Audubon-Park	1015.9	72	22.2	57	13.9	59.2	45	6
	Biloxi, Miss.	--	71	21.7	53	11.7	53.0	90	7
	Valpariso, Fla.	1022.7	69	20.6	47	8.3	45.4	70	8
	Mobile, Ala.	1022.7	69	20.6	52	11.1	54.6	70	10
1000	Pensacola, Fla.	1024.4	72	22.2	50	10.0	45.8	80	11
	N.O. Audubon-Park	1015.9	74	23.3	55	12.8	51.5	290	9
	Biloxi, Miss.	1024.4	75	23.9	53	11.7	46.3	90	9
	Valpariso, Fla.	1022.7	73	22.8	45	7.2	36.7	50	10
	Mobile, Ala.	1022.7	73	22.8	50	10.0	44.3	70	11
1100	Pensacola, Fla.	1024.1	74	23.3	49	9.4	41.3	90	10
	N.O. Audubon-Park	1015.9	76	24.4	57	13.9	51.8	90	7
	Biloxi, Miss.	--	80	26.7	51	10.6	36.4	80	10
	Valpariso, Fla.	1022.7	76	24.4	42	5.6	29.6	60	12
	Mobile, Ala.	1022.7	77	25.0	50	10.0	38.8	60	9
1200	Pensacola, Fla.	1024.1	76	24.4	49	9.4	38.6	110	11
	N.O. Audubon-Park	1015.9	76	24.4	57	13.9	51.8	90	8

TABLE 1
NATIONAL WEATHER SERVICE
SURFACE METEOROLOGICAL OBSERVATIONS
5 MAY 1972 0900 C.D.T. -1500 C.D.T.

TIME C.D.T	STATION	PRESSURE MB	TEMPERATURE F.	TEMPERATURE C.	DEW POINT F.	DEW POINT C.	R.H. %	WIND DIRECTION	KNOTS
1200	Biloxi, Miss.	--	77	25.0	58	14.4	51.9	170	10
	Valpariso, Fla.	1022.7	76	24.4	44	6.7	32.0	70	5
	Mobile, Ala.	1022.7	78	25.6	48	8.9	34.8	60	10
1300	Pensacola, Fla.	1023.0	78	25.6	48	8.9	34.8	110	10
	N.O. Audubon-Park	1015.9	77	25.0	53	11.7	43.3	90	8
	Biloxi, Miss.	1024.0	77	25.0	57	13.9	50.1	140	9
	Valpariso, Fla.	1022.7	80	26.7	45	7.2	29.1	40	4
	Mobile, Ala.	1022.7	78	25.6	47	8.3	33.5	130	3
1400	Pensacola, Fla.	1022.7	78	25.6	49	9.4	36.1	110	7
	N.O. Audubon-Park	1015.9	76	24.4	54	12.2	46.4	135	6
	Biloxi, Miss.	--	78	25.6	55	12.8	45.1	160	8
	Valpariso, Fla.	1019.3	80	26.7	49	9.4	33.8	60	6
	Mobile, Ala.	1022.7	81	27.2	48	8.9	31.5	70	9
1500	Pensacola, Fla.	1022.0	78	25.6	53	11.7	41.9	180	8
	N.O. Audubon-Park	1015.9	75	23.9	54	12.2	48.0	135	7
	Biloxi, Miss.	--	78	25.6	57	13.9	48.5	180	9
	Valpariso, Fla.	1019.3	81	27.2	46	7.8	29.2	120	8
	Mobile, Ala.	1019.3	82	27.8	48	8.9	30.5	50	7

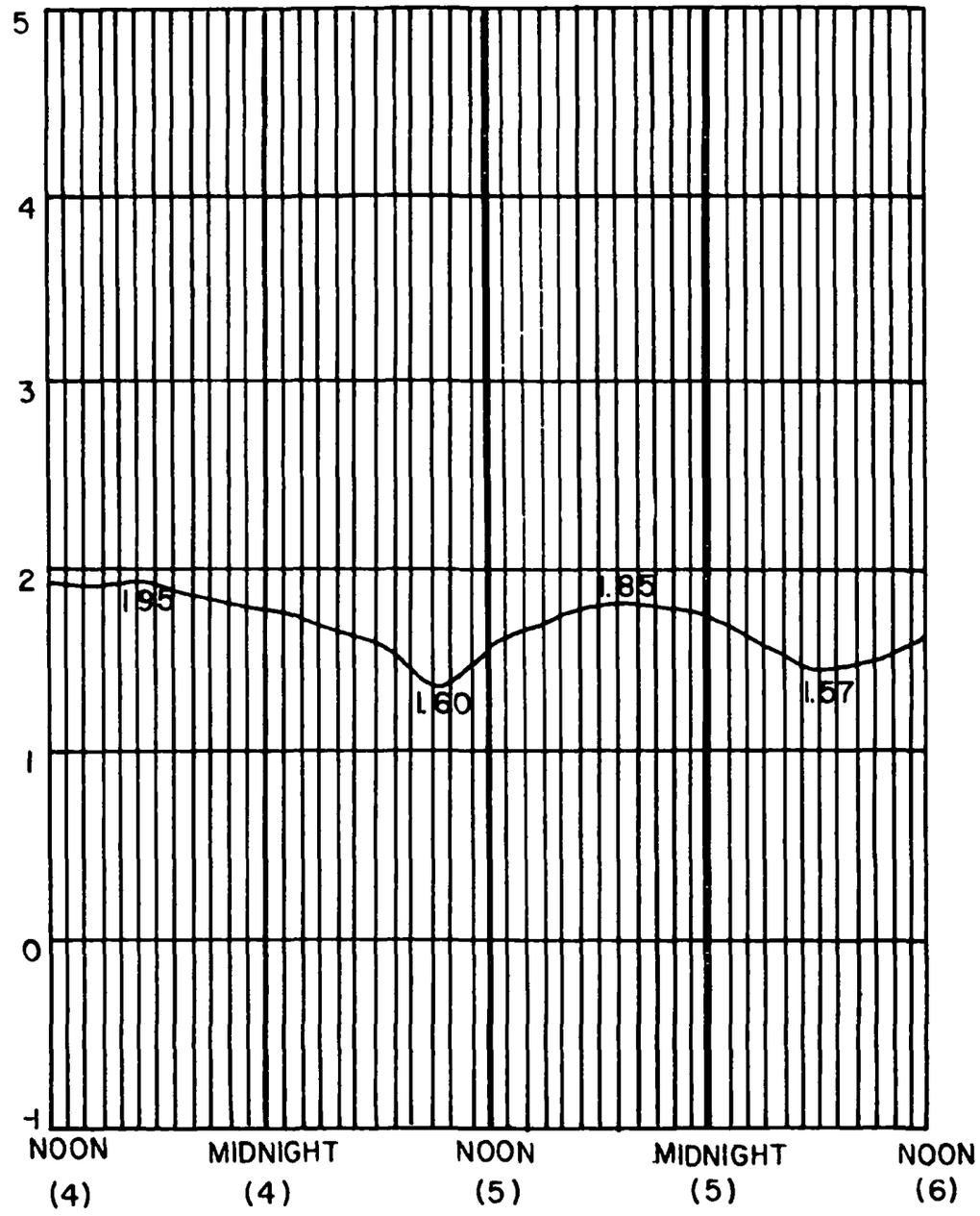


FIGURE 4.

BAYOU BARATARIA (LAFITTE) 29°40'06" N 90°06'36" W
GAGE ZERO - MEAN SEA LEVEL

SOURCE. NEW ORLEANS CORPS OF ENGINEEI

TABLE 2
TERREBONNE / BARATARIA BAY STATION LOCATIONS

FLIGHT LINES	STA	SCHEDULED SAMPLE TIME	LATITUDE	LONGITUD	LANDMARK---DISTANCE AND HEADING FROM	DIS NM	MGN HDG
2,12	1	0839 1057	29 24.9N	89 57.1W	ST MARY PT	0.9	208
2,13	2	0839 1105	29 22.5N	89 58.5W	W TIP GRAND IS	3.8	264
2,13	3	0838 1106	29 22.5N	89 55.0W	W TIP GRAND IS	0.8	264
3,14	4	0850 1113	29 20.0N	89 57.4W	N TIP INDP IS	1.7	312
3,14	5	0845 1114	29 20.0N	89 54.6W	N TIP INDP IS	1.9	040
4,15	6	0852 1127	29 18.0N	90 00.0W	E TIP PT LIETTES	0.8	084
4,15	7	0851 1125	29 18.0N	89 54.4W	N TIP INDP IS	1.6	107
4,15	8	0850 1123	29 18.0N	89 50.6W	FL 4 SEC 30 FT	1.0	128
5,16	9	0920 1133	29 16.1N	90 03.4W	W TIP ANDRE IS	0.5	274
5,16	10	0921 1134	29 16.1N	90 00.0W	MARTIGAN PT	0.9	077
5,16	11	0922 1136	29 16.1N	89 54.6W	N EAST GRAND IS	2.4	082
5,17	12	0920 1152	29 13.6N	90 04.4W	NW TIP ANDRE IS	2.6	186
5,17	13	0922 1150	29 13.6N	89 54.4W	NE TIP GRAND IS	3.5	127
5,18	14	0916 1204	29 14.7N	90 29.0W	R TOWER	1.5	002
5,18	15	0917 1201	29 14.7N	90 20.4W	QK FL R 10 FT	0.3	352
7,19	16	1006 1213	29 11.4N	90 34.4W	FL 4 SEC 1	0.5	007
7,19	17	1006 1214	29 11.4N	90 31.1W	R TOWER	2.5	215
7,19	18	1004 1217	29 11.4N	90 21.8W	FL 4 SEC 25 FT.	0.8	253
8,20	19	1013 1233	29 08.3N	90 31.1W	N ≠14≠	1.2	088

TABLE 2
TERREBONNE / BARATARIA BAY STATION LOCATIONS, CONT.

FLIGHT LINES	STA	SCHEDULED SAMPLE TIME	LATITUDE	LONGITUD	LANDMARK---DISTANCE AND HEADING FROM	DIS NM	MGN HDG
8,20	20	1014 1230	29 08.3N	90 25.7W	BULL IS W TIP	1.6	241
8,20	21	1015 1228	29 08.3N	90 19.2W	W TIP DEVILS IS	2.0	258
9,21	22	1026 1306	29 02.2N	90 39.5W	S TIP PT MAST	1.5	243
9,21	23	1025 1305	29 02.2N	90 33.3W	W TIP CAILLOU IS	3.5	264
9,21	24	1024 1303	29 02.2N	90 28.1W	E TIP CAILLOU IS	0.3	084
9,21	25	1023 1301	29 02.2N	90 21.4W	W TIP CALUMET IS	0.8	174
9,21	26	1023 1259	29 02.2N	90 17.7W	FL 3 SEC #8#	0.2	174
10,22	27	1027 1246	29 05.4N	90 38.8W	LIGHTED PLATFORM	0.3	016
10,22	28	1028 1248	29 05.4N	90 31.3W	W TIP TIMBALIER IS	2.5	179
10,22	29	1030 1252	29 05.4N	90 21.4W	ABAND L-H TOWER	0.8	174
10,22	30	1027 1242	29 05.4N	90 47.1W	W END EAST IS	0.7	247
23	31	1351	29 31.2N	90 09.3W	LITTLE LAKE OIL F	2.5	162
23	32	1347	29 43.0N	90 12.3W	PT CHICOT	4.5	332
24	33	1404	29 45.0N	90 12.1W	PT CHICOT	6.0	022
5	34	0922	29 15.0N	89 54.3W	NE PT GRAND ISLE	2.9	062
9	35	1024	29 06.5N	90 28.1W	N TIP CAILLOU IS	1.0	019
8	36	1014	29 09.4N	90 25.7W	W TIP BULL IS	1.6	290
10	37	1036	29 03.5N	90 31.3W	W TIP TIMBAILER IS	1.1	005

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
1	830	0	23.6	*****	23.2	*****	90	8	****	1.0	*****	***	6.0		
1	845	0	23.6	*****	****	*****	90	8	****	1.0	*****	***	6.0		
1	900	0	23.6	*****	23.6	*****	90	8	****	1.0	*****	***	6.0		
1	915	0	23.6	*****	23.3	*****	90	8	****	1.0	*****	***	6.0		
1	930	0	23.6	*****	23.6	*****	90	8	****	2.0	*****	***	6.0		
1	945	0	23.6	*****	****	*****	90	8	****	2.0	*****	***	6.0		
1	1000	0	23.6	*****	24.4	*****	90	8	****	2.0	*****	***	6.0	226	
1	1015	0	23.6	*****	****	*****	90	8	****	2.0	*****	***	6.0		
1	1030	0	23.5	*****	24.3	*****	90	8	****	2.0	*****	***	6.0		
1	1045	0	23.6	*****	****	*****	90	8	****	2.0	*****	***	6.0		
1	1100	0	23.4	*****	24.9	*****	90	8	****	2.0	*****	***	6.0		
1	1115	0	23.5	*****	****	*****	90	8	****	2.0	*****	***	6.0		
1	1130	0	23.7	*****	25.1	*****	90	8	****	2.0	*****	***	6.0		
1	1145	0	23.9	*****	****	*****	90	8	****	2.0	*****	***	6.0		
1	1200	0	24.1	*****	26.2	*****	90	8	****	2.0	*****	***	6.0		
1	1215	0	24.0	*****	25.8	*****	90	8	****	2.0	*****	***	6.0		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
1	1222	0	24.0	******	26.3	*****	90	8	1.0	2.0	.21	300	6.0	225	FLYOVER
1	1248	0	24.1	******	****	*****	90	8	****	2.0	*****	***	6.0		
1	1300	0	24.3	******	26.8	*****	90	8	****	2.0	*****	***	6.0		
1	1315	0	24.3	******	26.3	*****	90	8	****	2.0	*****	***	6.0		
1	1330	0	24.3	******	26.2	*****	90	8	****	2.0	*****	***	6.0		
1	1345	0	24.5	******	26.2	*****	90	8	****	2.0	*****	***	6.0		
1	1400	0	24.1	******	26.3	*****	90	8	****	2.0	*****	***	6.0		
2	800	0	22.2	22.80	22.9	*****	90	3	1.5	1.4	*****	***	5.0		
2	815	0	22.4	22.80	22.9	*****	90	3	1.5	1.4	*****	***	5.0		
2	830	0	22.8	22.70	22.9	*****	90	3	1.5	1.4	*****	***	5.0		
2	845	0	23.1	22.60	22.9	*****	90	3	1.3	1.4	*****	***	5.0		
2	900	0	23.2	******	22.9	*****	90	8	1.0	1.5	*****	***	5.0		
2	915	0	23.2	22.80	22.9	*****	90	8	1.0	1.5	*****	***	5.0		FLYOVER
2	930	0	23.4	22.50	22.7	*****	135	10	1.0	1.5	*****	***	5.0		
2	945	0	23.0	******	****	*****	135	10	1.0	1.5	*****	***	5.0		
2	1000	0	22.8	22.30	22.8	*****	135	10	1.0	1.5	*****	***	5.0		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME	SAMP DEPH	WATER TEMP	SALNTY	AIR TEMP	RELAT HUMDY	WIND DIR	WIND SPD	SECH VISB	SEA STAT	CURRT	CUR DIR	WATER DEPTH	BOTL NO.	REMARKS
	CDT	FT	DEG C	PTS/K	DG C	PERCT	DEG	KN	FT	FT	KN	DEG	FT		
2	1030	0	23.1	22.60	23.6	*****	135	12	1.0	1.5	*****	***	5.0		
2	1100	0	23.2	22.60	23.7	*****	135	12	1.0	1.5	*****	***	5.0		
2	1100	0	23.7	22.60	24.0	*****	135	10	1.0	1.5	*****	***	5.0		
2	1115	0	23.7	22.50	23.8	*****	135	10	1.0	1.5	*****	***	5.0		
2	1130	0	23.7	22.60	24.3	*****	135	10	1.0	1.5	*****	***	5.0		
2	1200	0	23.9	22.60	24.3	*****	135	10	1.0	1.5	*****	***	5.0		
2	1232	0	24.1	22.50	24.4	*****	135	10	1.0	1.5	.30	270	5.0	227	FLYO PLANE N
2	1300	0	24.1	22.50	24.4	*****	135	8	1.0	1.5	*****	***	5.0		
2	1330	0	24.2	22.50	24.4	*****	135	8	1.0	1.0	*****	***	5.0		
2	1400	0	24.3	22.50	24.4	*****	135	8	1.0	1.0	*****	***	5.0		
3	800	0	27.8	18.80	23.2	61.3	85	10	2.5	3.0	.09	325	9.0		
3	815	0	27.8	18.30	****	*****	****	****	****	****	*****	***	*****		
3	830	0	27.8	18.80	23.8	*****	****	****	****	****	*****	***	*****		
3	845	0	28.0	18.80	****	*****	****	****	****	****	*****	***	*****		
3	850	0	28.0	18.70	24.0	57.9	85	12	2.5	3.0	*****	***	*****		
3	900	0	28.0	18.70	24.2	57.9	85	12	2.5	3.0	.24	325	*****		

TABLE 3

TERREBONNE / BARATARIA I
SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
3	915	0	28.0	18.80	24.2	57.9	85	12	2.5	3.0	.25	325	.....		FLYOVER
3	930	0	27.8	19.00	24.8	.....	....	....	....	....	.....	...	.....		
3	945	0	27.8	19.20	....	.....	....	....	....	....	.....	...	.....		
3	1000	0	27.8	19.20	24.6	61.8	80	14	2.0	3.5	.22	370	.....	230	
3	1015	0	28.3	19.10	....	.....	....	....	....	....	.....	...	.....		
3	1030	0	28.2	19.10	24.6	.....	....	....	....	....	.....	...	.....		
3	1045	0	28.3	19.30	....	.....	....	....	....	....	.....	...	.....		
3	1100	0	28.1	19.30	25.9	58.5	85	12	2.5	3.0	.25	320	.....		
3	1115	0	27.8	19.80	....	.....	....	....	....	....	.....	...	.....		
3	1130	0	28.0	19.80	25.9	.....	....	....	....	....	.....	...	.....		
3	1145	0	26.1	20.20	....	.....	....	....	....	....	.....	...	.....		
3	1200	0	25.8	20.10	24.7	55.9	85	12	2.0	3.0	.44	320	.....		
3	1215	0	25.7	20.60	....	.....	....	....	....	....	.....	...	.....		
3	1230	0	25.7	20.70	....	.....	....	....	....	....	.....	...	.....		
3	1235	0	25.7	20.70	27.9	56.4	85	10	2.5	2.5	.29	32	.....	229	FLYOVER
3	1245	0	25.6	20.70	....	.....	....	....	....	....	.....	...	.....		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
3	1300	0	25.6	21.10	30.3	50.7	85	8	2.5	2.0	.19	325	.....		
3	1315	0	26.0	21.10	....	.....	....	....	...•	....	.....	...	.....		
3	1330	0	25.6	21.10	29.1	.....	....	....	...•	....	.....	...	.....		
3	1345	0	25.6	20.90	....	.....	....	....	...•	....	.....	...	.....		
3	1400	0	25.9	20.90	27.1	61.8	85	6	3.0	1.5	.36	320	.....	229	
4	830	0	24.0	.....	23.5	.....	45	12	2.5	1.5	.....	...	7.0		
4	845	0	23.7	.....	23.7	.....	....	....	...•	....	.....	...	.....		
4	900	0	23.9	.....	23.7	.....	45	12	2.5	1.5	.....	...	7.0		
4	915	0	23.8	.....	23.6	.....	....	....	...•	....	.....	...	.....		FLYOVER
4	930	0	23.8	.....	23.4	.....	45	12	2.0	2.0	.....	...	7.0		
4	945	0	23.8	.....	23.4	.....	....	....	...•	....	.....	...	.....		
4	1000	0	23.8	.....	23.4	.....	45	12	2.0	2.0	.....	...	7.0	232	
4	1015	0	23.9	.....	23.5	.....	....	....	...•	....	.....	...	.....		
4	1030	0	23.9	.....	23.4	.....	45	12	...•	2.0	.....	...	7.0		
4	1045	0	23.8	.....	23.5	.....	....	....	...•	....	.....	...	.....		
4	1100	0	23.8	.....	23.0	.....	45	12	...•	2.0	.....	...	7.0		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
4	1115	0	23.8	•••••	22.5	•••••	••••	••••	••••	••••	•••••	•••	•••••		
4	1130	0	23.7	•••••	22.5	•••••	45	12	2.0	2.0	•••••	•••	7.0		
4	1243	0	23.7	•••••	22.5	•••••	45	12	2.0	2.0	.34	•••	7.0	231	FLYOVER
4	1400	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••	231A	
7	830	0	23.4	•••••	22.0	•••••	135	14	2.0	1.0	.81	•••	7.0		
7	845	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	900	0	23.4	•••••	22.0	•••••	135	••••	2.0	1.0	•••••	•••	•••••		
7	915	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	921	0	23.5	•••••	22.8	•••••	135	15	2.0	1.0	.89	•••	•••••		FLYOVER
7	930	0	23.5	•••••	23.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	945	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1000	0	23.5	•••••	23.1	•••••	135	18	1.5	2.0	.99	•••	•••••		
7	1015	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1030	0	23.5	•••••	23.4	•••••	135	20	1.5	2.0	•••••	•••	•••••		
7	1045	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1100	0	23.5	•••••	24.1	•••••	135	20	1.5	2.0	.99	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURNT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
7	1115	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1130	0	23.5	•••••	26.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1145	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1155	0	23.5	•••••	25.0	•••••	135	20	1.5	2.0	.99	•••	•••••	227	FLYOVER
7	1200	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1215	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1230	0	23.6	•••••	26.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
7	1245	0	23.7	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
8	830	0	20.3	•••••	20.3	•••••	••••	••••	••••	••••	•••••	•••	9.0		
8	845	0	20.3	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	9.0		
8	900	0	20.3	•••••	20.3	•••••	90	••••	3.0	2.0	•••••	•••	9.0		
8	930	0	20.3	•••••	20.3	•••••	90	••••	2.0	2.0	•••••	•••	9.0		FLYOVER
8	1000	0	20.3	•••••	20.3	•••••	90	••••	2.0	3.0	•••••	•••	9.0	240	
8	1015	0	20.3	•••••	••••	•••••	90	••••	••••	••••	•••••	•••	9.0		
8	1030	0	20.3	•••••	20.3	•••••	••••	••••	••••	••••	•••••	•••	9.0		
8	1045	0	20.3	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	9.0		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
8	1100	0	20.3	•••••	20.4	•••••	90	••••	1.5	3.0	•••••	•••	9.0		
8	1115	0	20.3	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	9.0		
8	1130	0	20.3	•••••	20.3	•••••	••••	••••	••••	••••	•••••	•••	9.0		
8	1145	0	20.3	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	9.0		
8	1253	0	20.3	•••••	20.4	•••••	90	10	1.5	3.0	.18	330	9.0	239	
8	1400	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	9.0	239A	
9	830	0	23.0	•••••	22.3	•••••	90	17	••••	1.5	•••••	•••	5.0		
9	845	0	23.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
9	900	0	23.0	•••••	23.0	•••••	90	17	••••	1.5	•••••	•••	•••••		
9	915	0	23.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
9	930	0	23.0	•••••	23.9	•••••	••••	••••	••••	••••	•••••	•••	•••••		
9	945	0	23.0	•••••	23.7	•••••	90	20	2.0	1.5	•••••	•••	•••••		
9	1000	0	23.0	•••••	23.0	•••••	90	20	2.0	1.5	•••••	•••	•••••	242	
9	1010	0	23.0	•••••	23.1	•••••	••••	20	2.0	1.5	.19	290	•••••		FLYOVER
9	1030	0	23.1	•••••	25.1	•••••	••••	••••	••••	••••	•••••	•••	•••••		
9	1045	0	23.2	•••••	27.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NU.	REMARKS
9	1100	0	23.2	.....	27.4	.....	90	20	2.0	1.5	.....	...	.....		
9	1115	0	23.2	.....	27.3	.....	....	....	....	....	.....	...	.....		
9	1130	0	23.5	.....	27.0	.....	....	....	....	....	.....	...	.....		
9	1145	0	23.8	.....	27.7	.....	....	....	....	....	.....	...	.....		
9	1200	0	23.8	.....	26.4	.....	90	20	1.5	1.5	.....	...	.....		
9	1220	0	23.8	.....	25.8	.....	90	20	1.5	1.5	.25	330	.....		FLYOVER
9	1230	0	24.0	.....	26.5	.....	....	....	....	....	.....	...	.....		
9	1245	0	24.0	.....	26.4	.....	....	....	....	....	.....	...	.....		
9	1305	0	24.0	.....	25.8	.....	135	....	1.5	1.5	.12	...	.....		FLYOVER
9	1315	0	24.0	.....	25.8	.....	....	....	....	....	.....	...	.....		
9	1330	0	24.0	.....	26.4	.....	....	....	....	....	.....	...	.....		
9	1345	0	24.0	.....	26.0	.....	....	....	....	....	.....	...	.....		
9	1400	0	24.1	.....	26.0	.....	90	....	1.5	1.0	.....	...	.....		
10	830	0	23.2	.....	22.9	.....	....	....	....	....	.....	...	.....		
10	845	0	23.2	.....	....	.....	....	....	....	....	.....	...	.....		
10	900	0	23.4	.....	23.0	.....	90	13	2.0	1.0	.....	...	5.5		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
10	915	0	23.5	.....	....	.....	....	....	....	....	.....	...	.....		
10	930	0	23.6	.....	23.0	.....	....	....	....	....	.....	...	.....		
10	945	0	23.7	.....	....	.....	....	....	....	....	.....	...	.....		
10	1000	0	23.7	.....	23.2	.....	90	13	2.5	1.0	.21	90	5.5	243A	
10	1015	0	23.8	.....	....	.....	....	....	....	....	.....	...	.....	243B	
10	1030	0	23.8	.....	23.4	.....	....	....	....	....	.....	...	.....		
10	1045	0	23.9	.....	....	.....	....	....	....	....	.....	...	.....		
10	1100	0	23.9	.....	23.5	.....	90	13	2.5	1.0	.....	...	5.5		
10	1115	0	23.8	.....	....	.....	....	....	....	....	.....	...	.....		
10	1130	0	24.0	.....	23.6	.....	....	....	....	....	.....	...	.....		
10	1145	0	24.0	.....	....	.....	....	....	....	....	.....	...	.....		
10	1200	0	24.1	.....	23.6	.....	90	16	2.5	1.5	.27	90	5.5		
10	1215	0	24.1	.....	....	.....	....	....	....	....	.....	...	.....		
10	1230	0	24.1	.....	23.6	.....	....	....	....	....	.....	...	.....		
10	1245	0	24.1	.....	....	.....	....	....	....	....	.....	...	.....		
10	1300	0	24.1	.....	23.6	.....	90	16	2.5	1.0	.....	...	5.5		FLYOVER

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
10	1315	0	24.1	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
10	1330	0	24.2	•••••	23.8	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
10	1345	0	24.3	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
10	1400	0	24.3	•••••	23.8	•••••	90	13	2.5	1.0	•••••	•••	5.5		
11	830	0	23.4	•••••	23.5	•••••	35	12	3.5	2.0	•••••	•••	14.0		
11	845	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	900	0	23.4	•••••	24.1	•••••	35	12	4.0	2.0	•••••	•••	14.0		
11	915	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	930	0	23.4	•••••	25.0	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	945	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	952	0	23.4	•••••	25.0	•••••	35	12	4.0	2.0	.33	270	14.0	246	FLYOVER
11	1000	0	23.4	•••••	25.1	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1015	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1030	0	23.4	•••••	24.8	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1045	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1100	0	23.3	•••••	25.4	•••••	35	8	4.0	2.0	•••••	•••	14.0		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
11	1115	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1130	0	23.3	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1145	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1200	0	23.4	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1206	0	•••••	•••••	25.0	•••••	35	10	3.0	2.0	.42	270	14.0	245	FLYOVER
11	1215	0	•••••	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1230	0	•••••	•••••	24.9	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1245	0	•••••	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1300	0	23.5	•••••	24.6	•••••	35	10	3.5	1.0	•••••	•••	•••••		
11	1315	0	23.5	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1330	0	23.5	•••••	25.1	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1345	0	23.5	•••••	••••	•••••	••••	••••	••.•	••••	•••••	•••	•••••		
11	1400	0	23.5	•••••	25.1	•••••	35	5	5.0	••••	•••••	•••	•••••	245A	
12	810	0	23.3	•••••	22.2	•••••	90	14	1.0	1.0	.44	90	•••••		
12	825	0	23.3	•••••	21.8	•••••	90	14	1.0	1.0	.37	90	•••••		
12	845	0	23.3	•••••	22.0	•••••	90	14	1.0	1.5	.40	90	•••••		

TABLE 3

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SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
12	900	0	23.2	•••••	23.5	•••••	90	14	1.0	1.5	•••••	•••	•••••		
12	915	0	23.3	•••••	24.7	•••••	90	14	1.5	1.5	•••••	•••	•••••	248	
12	930	0	23.3	•••••	25.5	•••••	90	14	1.5	1.5	•••••	•••	•••••		
12	945	0	23.3	•••••	25.4	•••••	90	16	1.5	1.5	•••••	•••	•••••	247A	
12	1000	0	23.2	•••••	25.3	•••••	90	16	1.5	1.5	•••••	•••	•••••		
12	1007	0	23.2	•••••	25.3	•••••	90	16	1.5	1.5	•••••	•••	•••••		
12	1030	0	23.3	•••••	24.7	•••••	90	16	1.5	1.0	•••••	•••	•••••		
12	1045	0	23.4	•••••	25.0	•••••	90	16	1.5	1.0	•••••	•••	•••••		
12	1100	0	23.2	•••••	24.5	•••••	90	16	1.5	1.0	•••••	•••	•••••		
12	1115	0	23.2	•••••	25.0	•••••	90	14	1.5	1.0	•••••	•••	•••••		
12	1130	0	23.3	•••••	24.9	•••••	90	14	2.0	1.0	•••••	•••	•••••		
12	1145	0	23.2	•••••	25.1	•••••	90	14	2.0	1.0	•••••	•••	•••••		
12	1200	0	23.2	•••••	25.0	•••••	90	14	2.5	1.0	•••••	•••	•••••		
12	1215	0	23.2	•••••	25.2	•••••	90	14	2.5	1.0	•••••	•••	•••••		
12	1230	0	23.4	•••••	26.1	•••••	90	14	2.5	1.0	•••••	•••	•••••		
12	1245	0	23.3	•••••	24.9	•••••	90	14	2.5	1.0	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH Ft	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
12	1300	0	23.3	•••••	25.0	•••••	90	14	2.5	1.0	•••••	•••	•••••		
12	1315	0	23.6	•••••	25.0	•••••	90	10	2.5	.5	•••••	•••	•••••		
12	1330	0	23.7	•••••	24.9	•••••	90	10	2.5	.5	•••••	•••	•••••		FLYOVER
12	1345	0	23.7	•••••	25.9	•••••	90	8	2.5	.5	•••••	•••	•••••		
12	1400	0	23.9	•••••	26.0	•••••	90	8	2.5	.5	•••••	•••	•••••	248	
13	2100	0	23.5	27.00	21.8	57.9	60	6	••••	3.0	•••••	•••	•••••		
13	2130	0	23.5	26.90	21.8	57.9	60	8	••••	3.0	•••••	•••	•••••		
13	2200	0	23.5	25.90	21.8	57.9	60	8	••••	3.0	•••••	•••	•••••		
13	2230	0	23.5	25.10	21.8	57.9	60	10	••••	3.0	•••••	•••	•••••		
13	2300	0	23.5	24.90	21.7	61.8	60	14	••••	3.0	•••••	•••	•••••		
13	2330	0	23.5	24.60	21.7	61.8	60	14	••••	3.0	•••••	•••	•••••		
13	0	0	23.4	24.10	21.7	61.8	60	14	••••	3.0	•••••	•••	•••••		
13	28	0	23.4	24.10	21.5	65.7	60	14	••••	3.0	•••••	•••	•••••		
14	830	0	22.9	•••••	23.0	•••••	70	7	1.5	.5	.10	22	7.0		
14	845	0	22.9	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
14	900	0	22.9	•••••	23.1	•••••	70	7	1.5	.5	.12	•••	7.0		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
14	915	0	22.9	******	23.0	*****	70	7	1.5	.5	.11	***	7.0		
14	930	0	22.8	******	23.2	*****	****	****	****	****	*****	***	*****		
14	945	0	22.8	******	****	*****	****	****	****	****	*****	***	*****		
14	1000	0	22.8	******	23.3	*****	70	7	1.5	1.0	.12	***	7.0	232	
14	1015	0	22.8	******	****	*****	****	****	****	****	*****	***	*****		
14	1030	0	22.8	******	23.3	*****	****	****	****	****	*****	***	*****		
14	1045	0	22.8	******	****	*****	****	****	****	****	*****	***	*****		
14	1100	0	22.9	******	23.3	*****	70	7	1.5	1.0	.25	***	7.0		
14	1115	0	23.0	******	****	*****	****	****	****	****	*****	***	*****		
14	1130	0	23.1	******	23.4	*****	****	****	****	****	*****	***	*****		
14	1145	0	23.3	******	****	*****	****	****	****	****	*****	***	*****		
14	1200	0	23.6	******	23.7	*****	70	7	1.5	1.0	.26	***	7.0		
14	1215	0	23.7	******	****	*****	****	****	****	****	*****	***	*****		
14	1230	0	23.8	******	23.7	*****	****	****	****	****	*****	***	*****		
14	1245	0	23.8	******	****	*****	****	****	****	****	*****	***	*****		
14	1300	0	24.1	******	24.0	*****	70	5	1.5	1.0	.23	20	*****	251	

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
15	830	0	•••••	••••••	••••	55.9	110	19	1.5	1.0	.17	340	5.0		
15	917	0	•••••	••••••	••••	•••••	••••	••••	1.5	1.0	.14	340	5.0		FLYOVER
15	930	0	•••••	••••••	••••	•••••	••••	••••	1.5	1.0	.14	340	5.0		
15	1000	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••	254	
15	1030	0	•••••	••••••	••••	•••••	••••	••••	1.5	1.0	.23	340	5.0		
15	1130	0	•••••	••••••	••••	•••••	••••	••••	1.5	1.0	.18	340	5.0		
15	1201	0	•••••	••••••	••••	•••••	••••	••••	1.5	1.0	.23	340	5.0	253	FLYOVER
16	831	0	23.1	••••••	20.9	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	845	0	23.1	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	900	0	23.1	••••••	21.3	•••••	110	5	1.5	1.0	•••••	•••	•••••		
16	915	0	23.2	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	930	0	23.2	••••••	21.3	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	945	0	23.3	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	1006	0	23.3	••••••	21.6	•••••	110	10	1.5	2.0	.15	45	•••••	256	FLYOVER
16	1015	0	23.3	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	1030	0	23.3	••••••	22.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
16	1045	0	23.3	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	1110	0	23.3	•••••	22.6	•••••	110	10	1.5	2.0	•••••	•••	•••••		
16	1115	0	23.3	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	1130	0	•••••	•••••	22.9	•••••	••••	••••	••••	••••	•••••	•••	•••••		
16	1213	0	•••••	•••••	••••	•••••	110	10	1.5	2.0	.19	45	•••••	255	FLYOVER
17	830	0	23.4	•••••	••••	•••••	110	16	••••	••••	•••••	•••	•••••		
17	845	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	900	0	23.6	•••••	23.1	•••••	110	16	1.5	2.0	•••••	•••	•••••		
17	915	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	930	0	23.7	•••••	23.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	945	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	1006	0	23.8	•••••	23.4	•••••	110	16	1.5	2.0	.21	20	•••••	258	FLYOVER
17	1015	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	1030	0	24.0	•••••	23.6	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	1045	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	1100	0	24.0	•••••	23.6	•••••	110	16	2.0	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I
SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
17	1115	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	1130	0	24.0	•••••	24.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
17	1200	0	24.0	•••••	24.7	•••••	110	18	1.5	4.0	•••••	•••	•••••		
17	1215	0	24.1	•••••	24.5	•••••	110	18	1.5	4.0	.24	20	•••••		
18	830	0	22.1	•••••	23.6	•••••	90	10	••••	1.0	•••••	•••	•••••		
18	900	0	22.2	•••••	24.5	•••••	90	10	••••	1.0	•••••	•••	•••••		
18	1000	0	22.2	•••••	24.5	•••••	90	10	1.5	1.0	•••••	•••	7.0	260	FLYOVER
18	1030	0	23.2	•••••	24.6	•••••	90	10	••••	1.0	•••••	•••	•••••		
18	1100	0	23.3	•••••	24.6	•••••	90	10	1.5	1.0	•••••	•••	7.0		
18	1130	0	23.4	•••••	25.1	•••••	90	10	••••	1.0	•••••	•••	•••••		
18	1217	0	23.5	•••••	25.3	•••••	90	10	1.5	1.0	•••••	•••	7.0	259	FLYOVER
19	830	0	20.4	•••••	20.5	•••••	90	16	3.5	2.5	.30	•••	8.6		
19	845	0	20.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
19	900	0	20.5	•••••	21.5	•••••	••••	••••	••••	••••	•••••	•••	•••••		
19	915	0	20.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
19	930	0	20.2	•••••	21.4	•••••	90	16	3.0	2.5	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
19	945	0	20.3	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
19	1000	0	20.4	•••••	21.3	•••••	90	••••	••••	••••	•••••	•••	•••••		
19	1013	0	20.4	•••••	21.2	•••••	90	••••	••••	••••	•••••	•••	•••••	262	FLYOVER
20	1100	0	•••••	•••••	••••	55.3	90	20	2.5	1.5	.49	•••	•••••		
20	1200	0	•••••	•••••	••••	58.5	90	20	2.5	1.5	.44	•••	•••••		
20	1230	0	•••••	•••••	••••	59.5	90	15	2.5	1.5	.44	•••	•••••	263	
21	830	0	23.4	•••••	22.7	•••••	90	10	••••	••••	•••••	•••	•••••		
21	845	0	23.1	•••••	••••	•••••	90	10	••••	••••	•••••	•••	•••••		
21	900	0	23.2	•••••	••••	•••••	90	10	1.5	••••	.28	180	•••••		
21	915	0	23.2	•••••	23.0	•••••	90	10	••••	••••	•••••	•••	•••••		
21	930	0	23.1	•••••	22.9	•••••	90	10	••••	••••	•••••	•••	•••••		
21	945	0	23.4	•••••	••••	•••••	90	10	••••	••••	•••••	•••	•••••		
21	1005	0	23.4	•••••	23.7	•••••	90	10	1.5	••••	•••••	•••	•••••	266	
21	1030	0	23.5	•••••	24.0	•••••	90	10	••••	••••	.34	180	•••••		
21	1100	0	23.7	•••••	23.8	•••••	90	10	1.5	••••	•••••	•••	•••••		
21	1115	0	23.5	•••••	••••	•••••	90	10	••••	••••	•••••	•••	•••••		

TABLE 3

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SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
21	1130	0	23.9	*****	24.0	*****	90	10	****	****	*****	***	*****		
21	1200	0	*****	*****	24.6	*****	90	10	1.0	2.0	.34	180	*****		FLYOVER
21	1215	0	23.7	*****	****	*****	90	10	1.0	2.0	*****	***	*****		
21	1225	0	23.4	*****	25.5	*****	90	8	1.0	****	*****	***	*****		
21	1300	0	*****	*****	****	*****	90	8	1.0	****	.25	180	*****		FLYOVER
21	1315	0	23.8	*****	****	*****	****	****	****	****	*****	***	*****		
21	1330	0	*****	*****	****	*****	****	****	****	****	*****	***	*****	265	
22	830	0	23.4	*****	22.9	*****	****	****	****	****	*****	***	6.5		
22	845	0	23.4	*****	22.9	*****	****	****	****	****	*****	***	*****		
22	900	0	23.4	*****	22.3	*****	90	16	1.5	****	*****	***	*****		
22	915	0	23.3	*****	22.3	*****	****	****	****	****	*****	***	*****		
22	930	0	23.3	*****	22.3	*****	****	****	****	****	*****	***	*****		
22	945	0	23.3	*****	22.4	*****	****	****	****	****	*****	***	*****		
22	1000	0	23.2	*****	22.5	*****	90	15	1.5	1.5	*****	***	*****	268	
22	1015	0	23.2	*****	22.8	*****	****	****	****	****	*****	***	*****		
22	1026	0	23.6	*****	22.9	*****	160	16	1.5	1.5	*****	***	*****		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
22	1045	0	23.7	•••••	23.1	•••••	••••	••••	••••	••••	•••••	•••	•••••		
22	1100	0	23.8	•••••	23.1	•••••	160	12	1.5	1.5	•••••	•••	•••••		
22	1115	0	23.8	•••••	23.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
22	1130	0	23.8	•••••	23.5	•••••	••••	••••	••••	••••	•••••	•••	•••••		
22	1145	0	23.9	•••••	23.8	•••••	••••	••••	••••	••••	•••••	•••	•••••		
22	1200	0	24.0	•••••	23.9	•••••	160	10	1.5	1.5	•••••	•••	•••••		
22	1215	0	24.0	•••••	23.9	•••••	••••	••••	••••	••••	•••••	•••	•••••		
22	1230	0	24.1	•••••	24.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
22	1245	0	24.1	•••••	24.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
22	1300	0	24.2	•••••	24.2	•••••	160	10	1.5	1.5	.10	340	•••••	267	
23	830	0	23.5	•••••	22.9	•••••	135	15	5.5	2.0	•••••	•••	16.0		
23	845	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	900	0	•••••	•••••	••••	•••••	135	20	5.5	2.5	•••••	•••	16.0		
23	915	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	930	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	945	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
23	1000	0	•••••	••••••	••••	•••••	135	20	5.5	3.5	•••••	•••	16.0	270	
23	1015	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1025	0	•••••	••••••	••••	•••••	135	25	5.0	4.0	.31	270	16.0		FLYOVER
23	1030	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1045	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1100	0	•••••	••••••	••••	•••••	135	25	4.5	4.0	•••••	•••	16.0		
23	1130	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1145	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1200	0	•••••	••••••	••••	•••••	135	17	5.0	2.5	•••••	•••	16.0		
23	1215	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1230	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1245	0	•••••	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	16.0		
23	1305	0	•••••	••••••	••••	•••••	135	13	5.0	2.5	.20	•••	16.0	269	FLYOVER
24	1100	0	23.0	••••••	23.5	•••••	90	16	2.0	2.0	•••••	305	9.0		
24	1115	0	22.8	••••••	23.7	•••••	••••	••••	••••	••••	•••••	•••	•••••		
24	1130	0	22.7	••••••	23.7	•••••	90	16	2.0	2.0	•••••	305	9.0		

TABLE 3

TERREBONNE / BARATARIA 1

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
24	1145	0	22.7	•••••	23.6	•••••	••••	••••	••••	••••	•••••	•••	•••••		
24	1200	0	22.8	•••••	23.8	•••••	90	15	2.0	2.0	•••••	305	9.0		
24	1215	0	23.0	•••••	23.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
24	1230	0	23.0	•••••	22.9	•••••	90	15	2.0	2.0	•••••	270	9.0		
24	1245	0	23.0	•••••	23.7	•••••	••••	••••	••••	••••	•••••	•••	9.0		
24	1300	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••	271	
24	1307	0	23.3	•••••	23.7	•••••	90	15	2.0	2.0	•••••	270	9.0		
25	830	0	23.2	•••••	23.1	•••••	270	4	2.5	1.5	•••••	•••	7.5		
25	845	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	900	0	23.5	•••••	24.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	915	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	930	0	23.4	•••••	23.4	•••••	270	4	3.0	1.5	•••••	•••	•••••		
25	945	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1000	0	23.6	•••••	24.8	•••••	••••	••••	••••	••••	•••••	•••	•••••	273	
25	1015	0	23.2	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1023	0	23.7	•••••	24.6	•••••	270	4	3.5	1.0	.28	135	•••••		FLYOVER

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
25	1030	0	23.2	•••••	23.1	•••••	270	••••	3.0	1.0	•••••	•••	•••••		
25	1045	0	23.2	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1100	0	23.7	•••••	24.8	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1115	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1130	0	23.7	•••••	24.6	•••••	270	4	2.5	1.0	•••••	•••	•••••		
25	1145	0	23.9	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1200	0	24.0	•••••	25.6	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1215	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1230	0	24.1	•••••	23.1	•••••	270	3	3.5	.8	•••••	•••	•••••		
25	1245	0	24.2	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
25	1301	0	24.2	•••••	25.1	•••••	270	••••	4.0	.8	.13	90	•••••	274	FLYOVER
25	1340	0	24.2	•••••	25.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
26	830	0	23.0	•••••	23.6	•••••	••••	••••	••••	••••	•••••	•••	•••••		
26	845	0	23.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
26	900	0	23.1	•••••	23.6	•••••	90	7	2.0	2.0	•••••	•••	6.0		
26	915	0	23.1	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
26	930	0	23.0	••••••	23.2	•••••	••••	••••	•••	••••	•••••	•••	•••••		
26	945	0	23.2	••••••	••••	•••••	••••	••••	•••	••••	•••••	•••	•••••		
26	1000	0	23.3	••••••	24.0	•••••	90	10	2.5	1.0	•••••	•••	6.0	276	
26	1015	0	23.3	••••••	••••	•••••	••••	••••	•••	••••	•••••	•••	•••••		
26	1023	0	23.3	••••••	23.8	•••••	90	8	2.5	1.0	•••••	•••	6.0		
26	1030	0	23.4	••••••	23.9	•••••	••••	••••	•••	••••	•••••	•••	•••••		
26	1045	0	23.4	••••••	••••	•••••	••••	••••	•••	••••	•••••	•••	•••••		
26	1100	0	23.6	••••••	24.0	•••••	90	8	2.5	1.0	•••••	•••	6.5		
26	1115	0	23.6	••••••	••••	•••••	••••	••••	•••	••••	•••••	•••	6.5		
26	1130	0	23.6	••••••	23.9	•••••	••••	••••	••••	••••	•••••	•••	6.5		
26	1145	0	23.9	••••••	••••	•••••	••••	••••	•••	••••	•••••	•••	6.5		
26	1200	0	23.9	••••••	24.3	•••••	90	8	2.5	1.0	•••••	•••	6.5		
26	1215	0	23.8	••••••	••••	•••••	••••	••••	•••	••••	•••••	•••	6.5		
26	1230	0	23.8	••••••	24.1	•••••	••••	••••	•••	••••	•••••	•••	•••••		
26	1245	0	24.0	••••••	••••	•••••	••••	••••	••••	••••	•••••	•••	6.5		
26	1300	0	23.9	••••••	24.6	•••••	90	9	2.3	1.5	•••••	•••	6.5	275	

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
27	915	0	24.4	******	23.6	95.5	110	10	****	4.5	.63	270	15.0		
27	930	0	24.3	******	23.7	*****	110	12	****	6.0	*****	***	*****		
27	945	0	24.3	******	23.9	*****	110	15	****	5.5	*****	***	*****		
27	1000	0	24.2	******	23.1	*****	110	17	****	6.0	.63	270	*****	278	
27	1015	0	23.3	******	24.3	*****	****	****	****	****	*****	***	*****		
27	1030	0	23.9	******	24.4	*****	110	12	****	4.0	*****	***	*****		
27	1045	0	23.9	******	24.5	56.4	110	12	****	3.5	*****	***	*****		
27	1100	0	23.4	******	24.6	53.5	110	14	****	4.5	.63	270	*****		
27	1130	0	24.0	******	24.6	*****	****	****	****	****	*****	***	*****		
27	1145	0	24.1	******	24.7	-81.0	110	12	****	3.5	*****	***	*****		
27	1200	0	*****	******	****	56.9	110	10	****	3.0	.59	270	*****		
27	1230	0	24.3	******	25.6	-79.4	110	12	****	4.0	*****	***	18.0		
27	1245	0	24.3	******	25.6	*****	****	****	****	****	*****	***	*****	277	
27	1300	0	24.2	******	25.7	59.9	110	10	****	3.0	.56	270	*****		
28	1115	0	23.9	******	****	*****	****	****	****	****	*****	***	*****		
28	1130	0	24.0	******	25.2	*****	****	****	****	****	*****	***	*****		

TABLE 3

TERREBONNE / BARATARIA 1

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
28	1145	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
28	1200	0	24.0	•••••	25.3	•••••	135	12	7.5	2.0	.45	315	•••••		
28	1215	0	24.1	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
28	1230	0	24.1	•••••	25.5	•••••	••••	••••	••••	••••	•••••	•••	•••••		
28	1248	0	24.1	•••••	25.6	•••••	135	12	8.0	2.0	.47	315	•••.•	279	
29	830	0	23.4	•••••	24.3	•••••	90	10	••••	3.0	•••••	•••	10.0		
29	845	0	23.5	•••••	24.4	•••••	90	••••	••••	••••	•••••	•••	10.0		
29	900	0	23.4	•••••	23.5	•••••	90	12	••••	3.0	.87	90	10.0		
29	915	0	23.4	•••••	23.4	•••••	90	••••	••••	••••	•••••	•••	10.0		
29	930	0	23.5	•••••	23.8	•••••	90	••••	••••	••••	•••••	•••	10.0		
29	945	0	23.5	•••••	24.0	•••••	90	••••	••••	••••	•••••	•••	10.0		
29	1000	0	23.5	•••••	24.0	•••••	90	14	7.0	3.0	.81	90	10.0	282	
29	1015	0	23.6	•••••	24.1	•••••	90	••••	••••	••••	•••••	•••	10.0		
29	1030	0	23.7	•••••	24.3	•••••	90	••••	••••	••••	•••••	•••	10.0		
29	1045	0	23.7	•••••	24.3	•••••	90	••••	••••	••••	•••••	•••	10.0		
29	1100	0	23.7	•••••	24.4	•••••	90	14	7.0	3.0	.82	90	10.0		

TABLE 3
TERREBONNE / BARATARIA I
SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
29	1115	0	23.7	•••••	24.6	•••••	90	••••	•••	••••	•••••	•••	10.0		
29	1130	0	23.7	•••••	25.1	•••••	••••	••••	••••	3.0	•••••	•••	10.0		
29	1145	0	23.7	•••••	25.3	•••••	••••	••••	••••	••••	•••••	•••	•••••		
29	1200	0	23.7	•••••	25.3	•••••	90	14	7.0	3.0	.82	90	10.0		
29	1215	0	23.7	•••••	25.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
29	1230	0	23.8	•••••	25.3	•••••	••••	••••	••••	••••	•••••	•••	•••••		
29	1245	0	23.8	•••••	25.3	•••••	••••	••••	••••	••••	•••••	•••	•••••		
29	1252	0	23.8	•••••	25.3	•••••	90	14	7.0	••••	.84	90	10.0	281	
30	830	0	23.5	•••••	22.8	•••••	••••	••••	••••	••••	•••••	•••	13.0		
30	845	0	23.5	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	900	0	23.7	•••••	22.9	•••••	90	12	9.5	2.0	•••••	•••	13.0		
30	915	0	23.7	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	930	0	23.8	•••••	23.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	945	0	23.9	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	1000	0	23.9	•••••	23.3	•••••	90	12	5.5	4.0	•••••	•••	•••••	284	
30	1015	0	•••••	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
30	1027	0	23.9	•••••	23.2	•••••	90	12	5.5	4.0	.42	90	•••••		FLYOVER
30	1030	0	23.9	•••••	23.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	1045	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	1100	0	24.0	•••••	23.5	•••••	90	12	6.0	4.0	•••••	•••	•••••		
30	1115	0	23.9	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	1130	0	24.0	•••••	23.9	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	1145	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	1200	0	24.0	•••••	24.1	•••••	90	15	4.5	4.0	•••••	•••	•••••		
30	1215	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
30	1230	0	24.0	•••••	24.4	•••••	90	••••	••••	••••	•••••	•••	•••••		
30	1242	0	24.1	•••••	24.4	•••••	90	5	4.0	••••	.26	•••	•••••	283	FLYOVER
31	930	0	23.5	•••••	23.3	•••••	45	12	3.5	1.0	•••••	•••	5.5		
31	945	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1000	0	23.5	•••••	23.5	•••••	90	12	4.0	1.0	•••••	•••	6.0	286	
31	1015	0	23.7	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1030	0	23.6	•••••	23.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NU.	REMARKS
31	1045	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1100	0	23.7	•••••	23.5	•••••	90	12	4.3	1.5	•••••	•••	6.0		
31	1115	0	23.7	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1130	0	23.8	•••••	24.1	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1145	0	23.7	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1200	0	23.5	•••••	23.6	•••••	135	13	3.3	1.5	•••••	•••	6.0		
31	1215	0	23.7	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1230	0	23.8	•••••	24.0	•••••	135	13	••••	1.5	•••••	•••	•••••		
31	1245	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1300	0	23.9	•••••	23.9	•••••	135	13	3.3	1.5	•••••	•••	6.0		
31	1315	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1330	0	24.0	•••••	24.1	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1345	0	24.1	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1400	0	24.1	•••••	23.9	•••••	••••	10	2.5	1.5	•••••	•••	6.0		
31	1415	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
31	1430	0	24.0	•••••	23.2	•••••	135	8	••••	1.0	.27	225	6.0	285	

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
32	930	0	23.0	•••••	22.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	945	0	23.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1000	0	23.8	•••••	24.4	58.5	70	9	4.0	2.0	•••••	•••	•••••	288	
32	1015	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1030	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1045	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1100	0	23.8	•••••	23.3	59.0	70	17	4.0	3.0	•••••	•••	•••••		
32	1130	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1145	0	23.8	•••••	23.8	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1200	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1215	0	23.8	•••••	25.0	55.3	90	17	4.0	2.5	•••••	•••	•••••		
32	1230	0	23.8	•••••	25.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1245	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1300	0	23.8	•••••	23.3	58.5	110	13	4.0	2.5	•••••	•••	•••••		
32	1315	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
32	1330	0	23.8	•••••	24.4	•••••	••••	••••	••••	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I
SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
32	1347	0	24.4	•••••	24.4	62.2	110	10	3.5	2.0	•••••	•••	2.0	287	FLYOVER
33	930	0	23.0	•••••	24.3	•••••	45	11	3.0	2.0	•••••	•••	•••••	290	
33	945	0	23.0	•••••	24.2	•••••	45	9	3.0	1.1	•••••	•••	•••••		
33	1000	0	23.1	•••••	24.0	•••••	70	9	3.5	2.0	•••••	•••	•••••		
33	1015	0	23.2	•••••	23.9	•••••	70	9	3.0	2.0	•••••	•••	•••••		
33	1030	0	23.2	•••••	24.5	•••••	70	6	3.5	2.0	•••••	•••	•••••		
33	1045	0	23.3	•••••	24.8	•••••	90	5	3.0	2.0	•••••	•••	•••••		
33	1100	0	23.3	•••••	24.3	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1115	0	23.3	•••••	24.3	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1130	0	23.4	•••••	24.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1145	0	23.4	•••••	24.3	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1200	0	23.5	•••••	23.0	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1215	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1230	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1245	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
33	1300	0	23.4	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
13	1315	0	23.4	.....	....	.....	....	....	...0	....	.....	...	.....		
13	1330	0	23.4	.....	....	.....	....	....	...0	....	.....	...	.....		
13	1345	0	23.4	.....	....	.....	....	....	...0	....	.....	...	.....		
13	1400	0	23.4	.....	....	.....	....	....	...0	....	.....	...	.....		
13	1415	0	23.5	.....	....	.....	....	....	...0	....	.....	...	.....		
13	1430	0	23.5	.....	....	.....	....	....	...0	....	.....	...	.....		
14	845	0	23.5	25.60	....	.....	....	....	...0	....	.....	...	.....		
14	900	0	23.5	25.60	23.3	57.9	90	10	....	5.0	.....	...	.....		
14	915	0	23.5	25.20	....	.....	....	....	...0	....	.....	...	.....		
14	930	0	23.5	25.40	....	.....	....	....	...0	....	.....	...	.....		
14	945	0	23.5	25.40	....	.....	....	....	...0	....	.....	...	.....		
14	1000	0	23.5	25.50	23.3	57.9	90	18	....	5.0	.....	...	17.0	250	
14	1012	0	23.5	25.30	23.3	57.9	80	16	....	5.0	.....	...	17.0		FLYOVER
15	915	0	22.9	.....	23.3	.....	90	15	2.0	2.0	.....	...	7.0		
15	930	0	23.0	.....	23.5	.....	90	15	2.0	2.0	.....	...	7.0		
15	945	0	23.1	.....	23.6	.....	....	....	...0	....	.....	...	.....		

TABLE 3

TERREBONNE / BARATARIA I

SURFACE DATA COLLECTION STATION MEASUREMENTS

STAT NUMB	TIME CDT	SAMP DEPH FT	WATER TEMP DEG C	SALNTY PTS/K	AIR TEMP DG C	RELAT HUMDY PERCT	WIND DIR DEG	WIND SPD KN	SECH VISB FT	SEA STAT FT	CURRT KN	CUR DIR DEG	WATER DEPTH FT	BOTL NO.	REMARKS
35	1000	0	22.9	•••••	23.8	•••••	90	15	2.0	2.0	•••••	•••	7.0		
35	1030	0	22.6	•••••	23.9	•••••	90	15	2.0	2.0	•••••	•••	7.0		
36	800	0	23.1	•••••	22.6	69.3	90	15	1.5	1.5	.44	•••	•••••		
36	900	0	•••••	•••••	••••	62.2	90	20	1.5	1.5	.37	•••	•••••		
36	1000	0	•••••	•••••	••••	54.8	90	20	1.5	1.5	.44	•••	•••••	264	
36	1014	0	•••••	•••••	••••	58.5	90	20	1.5	1.5	.44	•••	•••••		
37	830	0	23.5	•••••	23.5	•••••	••••	••••	••••	••••	•••••	•••	•••••		
37	845	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
37	900	0	23.6	•••••	24.0	•••••	110	16	6.5	2.5	.74	290	•••••		
37	915	0	23.6	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
37	930	0	23.8	•••••	24.2	•••••	••••	••••	••••	••••	•••••	•••	•••••		
37	945	0	23.8	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
37	1000	0	23.9	•••••	24.3	•••••	135	16	5.0	2.5	.72	305	•••••	280	
37	1015	0	24.0	•••••	••••	•••••	••••	••••	••••	••••	•••••	•••	•••••		
37	1036	0	24.0	•••••	24.4	•••••	135	16	5.5	2.5	.81	305	•••••		FLYOVER

TABLE 4

TERREBONNE / BARATARIA BAY 1

SURFACE DATA LABORATORY MEASUREMENTS

STA NUM	TIME CDT	SMPL DPTH FT	SALIN *1 PTS/K	SALIN *2 PTS/K	TOTAL N MG/L	TOTAL P MG/L	CHLOR INITY PTS/K	CA MG/L	MG MG/L	CHLRP HYL A M/M3
1	1000	0	18.52	*****	******	******	******	*****	******	*****
1	1222	0	19.54	17.69	.394	.011	9.78	142.5	765.3	7.17
1	1400	0	19.38	*****	******	******	******	*****	******	*****
2	1000	0	22.04	*****	******	******	******	*****	******	*****
2	1232	0	22.36	19.80	.087	.015	10.95	167.5	859.4	9.07
2	1400	0	21.93	*****	******	******	******	*****	******	*****
3	1000	0	21.47	*****	******	******	******	*****	******	*****
3	1235	0	23.93	20.55	.379	.005	11.37	160.0	906.3	22.42
3	1400	0	24.02	*****	******	******	******	*****	******	*****
4	1000	0	23.45	*****	******	******	******	*****	******	*****
4	1243	0	23.35	21.00	.320	.011	11.62	170.0	890.6	3.98
4	1400	0	23.02	*****	******	******	******	*****	******	*****
7	1155	0	25.62	23.12	.094	.054	12.79	167.5	959.4	13.01
7	1245	0	26.20	*****	******	******	******	*****	******	*****
8	1000	0	27.47	*****	******	******	******	*****	******	*****
8	1253	0	28.29	26.14	******	.054	14.46	193.8	1062.5	15.05
8	1400	0	27.68	*****	******	******	******	*****	******	*****

1 = SALINOMETER METHOD 2 = TITRATION METHOD

TABLE 4

TERREBONNE / BARATARIA BAY I
SURFACE DATA LABORATORY MEASUREMENTS

STA NO	TIME CDT	SMPL DPTH FT	SALIN #1 PTS/K	SALIN #2 PTS/K	TOTAL N MG/L	TOTAL P MG/L	CHLOR INITY PTS/K	CA MG/L	MG MG/L	CHLRP HYL A M/M3
10	1000	0	22.39	21.46	.255	.010	11.87	147.5	865.6	*****
10	1304	0	23.25	*****	******	******	******	*****	******	13.87
10	1400	0	22.81	*****	******	******	******	*****	******	*****
11	1000	0	24.70	*****	******	******	******	*****	******	*****
11	1206	0	26.97	24.48	.061	.016	13.54	165.0	1006.3	12.57
11	1400	0	26.11	*****	******	******	******	*****	******	*****
12	930	0	23.97	*****	******	******	******	*****	******	*****
12	1000	0	23.94	*****	******	******	******	*****	******	*****
12	1330	0	24.12	*****	******	******	******	*****	******	6.62
12	1400	0	*****	20.94	.128	.017	11.58	176.3	900.0	*****
14	1000	0	23.71	*****	******	******	******	*****	******	*****
14	1300	0	24.74	21.80	.121	.014	12.06	153.8	875.0	6.87
15	1000	0	23.15	*****	******	******	******	*****	******	*****
15	1201	0	22.25	20.21	.647	.004	11.18	150.0	881.3	10.86
16	1000	0	25.33	*****	******	******	******	*****	******	*****
16	1213	0	25.78	23.39	.241	.010	12.94	166.8	984.4	5.31
17	1006	0	25.89	*****	******	******	******	*****	******	*****

1 = SALINOMETER METHOD 2 = TITRATION METHOD

TABLE 4

TERREBONNE / BARATARIA BAY I
SURFACE DATA LABORATORY MEASUREMENTS

STA NUM	TIME CDT	SMPL DPTH FT	SALIN #1 PTS/K	SALIN #2 PTS/K	TOTAL N MG/L	TOTAL P MG/L	CHLOR INITY PTS/K	CA MG/L	MG MG/L	CHLRP HYL A M/M3
17	1215	0	26.57	23.39	.164	.011	12.44	172.5	1090.6	7.76
18	1100	0	26.17	*****	******	******	******	*****	******	*****
18	1217	0	25.55	22.67	.078	.030	12.54	165.0	975.0	5.21
19	1013	0	29.63	*****	******	******	******	*****	******	*****
20	1000	0	29.35	*****	******	******	******	*****	******	*****
20	1230	0	26.80	23.82	.341	.005	13.18	168.8	953.1	20.82
21	1005	0	25.25	*****	******	******	******	*****	******	*****
21	1330	0	25.94	23.53	.164	.014	13.02	171.2	937.5	3.77
22	1000	0	26.81	*****	******	******	******	*****	******	*****
22	1300	0	27.35	*****	******	******	******	*****	******	*****
22	1306	0	27.75	25.26	.207	.013	13.98	167.5	1031.3	7.43
23	1000	0	28.35	*****	******	******	******	*****	******	*****
23	1305	0	29.81	25.69	.379	.011	14.22	192.5	1093.8	6.96
24	1330	0	26.51	24.11	.388	.016	13.34	180.0	971.9	12.56
25	1000	0	26.44	*****	******	******	******	*****	******	*****
25	1301	0	26.73	24.11	.388	.013	13.34	191.2	965.6	11.98
26	1000	0	25.81	*****	******	******	******	*****	******	*****

1 = SALINOMETER METHOD 2 = TITRATION METHOD

TABLE 4

TERREBONNE / BARATARIA BAY I

SURFACE DATA LABORATORY MEASUREMENTS

STA NUM	TIME CDT	SMPL DPTH FT	SALIN #1 PTS/K	SALIN #2 PTS/K	TOTAL N MG/L	TOTAL P MG/L	CHLOR INITY PTS/K	CA MG/L	MG MG/L	CHLRP HYL A M/M3
26	1300	0	25.71	23.67	.049	.021	13.10	176.2	940.6	11.74
27	1245	0	29.87	26.85	.463	.013	14.86	203.8	1087.5	5.06
28	1248	0	29.47	26.27	.054	.014	14.54	200.0	1025.0	10.24
29	1000	0	26.31	*****	******	******	******	*****	******	*****
29	1252	0	26.10	23.39	1.268	.024	12.94	182.5	921.9	29.89
30	1000	0	29.52	*****	******	******	******	*****	******	*****
30	1242	0	28.75	26.41	.220	.009	14.62	200.0	1028.1	4.72
31	1000	0	11.17	*****	******	******	******	*****	******	*****
31	1430	0	12.88	11.71	.512	.015	6.47	108.8	462.5	8.96
32	1000	0	4.36	*****	******	******	******	*****	******	*****
32	1345	0	5.16	4.07	.122	.005	2.24	30.0	136.3	14.10
33	9999	0	4.09	3.20	.537	.005	1.76	26.3	106.3	*****
34	1000	0	25.33	*****	******	******	******	*****	******	*****
35	1000	0	25.83	*****	******	******	******	*****	******	*****
36	1000	0	25.28	*****	******	******	******	*****	******	*****
37	1000	0	28.59	*****	******	******	******	*****	******	*****

TERREBONNE – BARATARIA BAY I

BARATARIA BAY WATERWAY
controlling depth was 12 feet across the bar.
thence a depth of 12 feet to a junction with the

LITTLE LAKE
Round Lake
Plum Pt
Bay Dekaters
Bayou Dekaters
Bayou Chaperon
Mud Lake
Wilkinson Bay
Bay Cheno
Camp Dewey
Coffee Bay
Coffee Bayou
Manila Bayou
Snail Bayou
Bayou L'Ourse
Hackberry Bay
Low Oak Bay
Bayou Defond
Bayou Casse-tete
Round Lake
Palmetto Bayou
Creole Bay
Bassa Bassa Bay
Hatchet Lake
Oaks Bay
Bay Rambo
West Champagne Bay
Lake Andre
Fishermans Bay
Bay Tambour
Bay Jaquet
Bay Desespere
Lake Jesse
South Lake
Bay Lizette
Bayou Fanny
Bayou Carlin
Bayou Perot
Bayou Rigolette
Bayou Terrebonne
Bayou Petit Caillou
Bayou Grand Caillou
Bayou Pointe au Chien
Bayou Decade
Bayou Pelton
Bayou Mechant
Bayou Merrimon
Bay Tartellon
Bay Champagne
Bayou Du Large
Bayou Du Large Canal
Bayou Terrebonne Canal
Bayou Petit Caillou Canal
Bayou Grand Caillou Canal
Bayou Pointe au Chien Canal
Bayou Decade Canal
Bayou Pelton Canal
Bayou Mechant Canal
Bayou Merrimon Canal
Bayou Du Large Canal
Pipeline Canal
Kings Canal
Kings Ridge
Bayou L'Ourse
Bayou Fanny
Bayou Carlin
Bayou Perot
Bayou Rigolette
Bayou Terrebonne
Bayou Petit Caillou
Bayou Grand Caillou
Bayou Pointe au Chien
Bayou Decade
Bayou Pelton
Bayou Mechant
Bayou Merrimon

TERREBONNE – BARATARIA BAY I

HOUMA NAVIGATION CANAL
The controlling depth was 14 feet through Cat Island Pass; thence 12 feet from the entrance of the improved channel in Terrebonne Bay (29°05'33"N., 90°34'18"W.) to the highway bridge in 29°34'05"N., 90°42'55"W.; thence 11 feet to a junction with the Intracoastal Waterway. Aug 1970

BAYOU LAFOURCHE
The controlling depth was 12 feet for a width of 300 feet in the Belle Pass channel; thence 11 feet to Bayou Lafourche; thence 8 feet to Golden Meadow; thence 6 feet to the Intracoastal Waterway at Larose; thence 5 feet to Thibodaux; thence closed by vegetation. The old entrance through the jetties is closed by a dam. Apr 1969-Aug 1970

CAUTION
Numerous oil well structures are located within Lake Pelto, Terrebonne and Timbalier Bays and waters to the northward.

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LAKE FELICITY
LAKE BARRE
OLD LADY LAKE
LAKE RACCOURCI
LITTLE LAKE
JACKO BAY
FORMATION ISLANDS
TERREBONNE BAY
TIMBALIER BAY
LAKE PELTO
DERNIERES ISLES
MARMANDE BANK
Lake Tambour
Lake Cherry
Lake Jesse
Lake Saint Jean Baptiste
Bay Bourbeaux
Bay la Pour
Bay Chaland
Bay Coquette
Bay Negresse
Bay Last Reef
Bay Charlie
Bay Coon Rondo
Bay de Mangles
Bay Sainte Elaine
Bay Blanc
Bay Round
Bay Wilson
Moss Bay
Pass Barre
Pass la Poule
Whisky Pass
Coupe Nouvelle
Timbalier Bay
Jacko Camp Bay
Pierle Bay
Devils Bay
Hackberry Bay
Pickett Bay
Landry Bay
Bayou Terrebonne
Bayou Petit Caillou
Bayou Grand Caillou
Bayou Pointe au Chien
Bayou Lafourche
Bayou Moreau
Bayou Porter
Bayou Seven
Grand Bayou Dixie
Grand Bayou
Grand Pass
Wine Island Pass
Little Pass Timbalier
Old Camp Pass
Bodwin Cutoff
Tambour Cutoff
Oyster Bayou
Dead Bayou
Pelican Lake
Pelican Islands
Terrebonne I
Cat I
Wine I
Bull Islands
Calumet I
Caillou I
Brush I
Canaa-Iere Island
Northwest I
Capon Pt
Point Meshe
Pt Mast
Cookie Pt
Chinoma Point
Chinoma Pass
Deep Cut
Grand Pass Island
Island Bayou
Lake Chinoma
Lake Chinoma Pass
Bayou Chinoma
Bayou Tee Ortours
Bayou Jean Lafourche
Bayou Jean Lafourche Canal
Bayou Terrebonne Canal
Bayou Petit Caillou Canal
Bayou Grand Caillou Canal
Bayou Pointe au Chien Canal
Bayou Lafourche Canal
Bayou Moreau Canal
Bayou Porter Canal
Bayou Seven Canal
Grand Bayou Dixie Canal
Grand Bayou Canal
Grand Pass Canal
Island Bayou Canal
Lake Chinoma Canal
Lake Chinoma Pass Canal
Bayou Chinoma Canal
Bayou Tee Ortours Canal

TERREBONNE - BARATARIA BAY I

LAKE BORGNE
LAC DES ALLEMANDS
NEW ORLEANS
METAIRIE
Kenner
Harvey
Westwego
Marrero
Chalmette
Arabi
Gretna
Morgan City
Thibodaux
HOUMA
Raceland
Lafourche Crossing
Lockport
Larose
Golden Meadow
Cut Off
Galliano
Lake Salvador
Lake Barre
Lake Raccourci
Caillou Island
Isles Dernieres
Timbalier Island
Grand Isle
Grand Terre Islands
Barataria
Lake Cataouatche
Lake Boudreaux
Lake Long
Lake Decade
Lake de Cade
Lake Mechant
Lake Pelto
Lake Felicity
Lake Hatch
Lake Verret
Lake Chicot
Lake Theriot
Lake Hermitage
Lake Fields
Lake Jean Lafitte
Lake Barre
Lake Calumet
Lake Cataouatche
Lake Salvador
Lake Decade

TERREBONNE - BARATARIA BAY I

HOUMA NAVIGATION CANAL
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LAKE FELICITY
LAKE BARRE
OLD LADY LAKE
FORMATION ISLANDS
JACKO BAY
LAKE RACCOURCI
LITTLE LAKE
PHILO BRICE IS
TERREBONNE BAY
TIMBALIER BAY
PELICAN LAKE
LAKE PELTO
ISLES DERNIERES
Lake Tambour
Lake Chien
Lake Saint Jean Baptiste
Bayou Terrebonne
Bayou Petit Caillou
Bayou Grand Caillou
Bayou Pointe au Chien
Bayou Dularge
Bayou Black
Bayou Sale
Bayou Cane
Bayou Chauvin
Bayou Du Large
Bayou Pelton
Bayou Sauvage
Bayou Blue
Bayou Gregoire
Bayou Lafourche
Grand Bayou Blue
Bayou Pierre et Lac
Lake Jesse
Lockport
Larose
Cut Off
Houma Navigation Canal
Gulf Intracoastal Waterway
Tambour Cutoff
Bodwin Cutoff
Wine Island Pass
Caillou Pass
Timbalier Pass
Belle Pass
Pass Barre
Pass Fourchon
Pass la Poule
Coupe Noirelle
Coupe Nouvelle
Old Camp Pass
Trinity Bay
Bay Lost Reef
Bay Coon Roads
Bay Sainte Elaine
Bay Blanc
Bay Round
Bay Charlie
Bay de Mangles
Bay Houmas
Bay Portage
Bay Ia Pour
Bay Negresse
Bay Cocodrie
Bay Chauvin
Bay Bourbeaux
Moss Bay
Little Bay Jean
Oyster Bayou
Chinaman Bayou
Chinois Pass
Deer Cut
Coupe Creuse
Fausse Pass Felicity
Lake Felicity Canal
Lake Felicity
Lake Chinaman
Lake Decade
Lake Jo Diable
Lake Le Vaste
Lake Trosclair
Lake Tambour Canal
Lake Chien Canal
Lake Decade Canal
Lake Jo Diable Canal
Lake Le Vaste Canal
Lake Trosclair Canal
Bayou Seven
Bayou Point d'Ours
Bayou Pierre
Bayou Rosa
Bayou Terrebonne Canal
Bayou Terrebonne Channel
Bayou Petit Caillou Canal
Bayou Grand Caillou Canal
Bayou Pointe au Chien Canal
Bayou Dularge Canal
Bayou Black Canal
Bayou Sale Canal
Bayou Cane Canal
Bayou Chauvin Canal
Bayou Du Large Canal
Bayou Pelton Canal
Bayou Sauvage Canal
Bayou Blue Canal
Bayou Gregoire Canal
Bayou Lafourche Canal
Grand Bayou Blue Canal
Bayou Pierre et Lac Canal
Lake Jesse Canal
Lockport Canal
Larose Canal
Cut Off Canal
Houma Navigation Canal
Gulf Intracoastal Waterway
Tambour Cutoff Canal
Bodwin Cutoff Canal
Wine Island Pass Canal
Caillou Pass Canal
Timbalier Pass Canal
Belle Pass Canal
Pass Barre Canal
Pass Fourchon Canal
Pass la Poule Canal
Coupe Noirelle Canal
Coupe Nouvelle Canal
Old Camp Pass Canal
Trinity Bay Canal
Bay Lost Reef Canal
Bay Coon Roads Canal
Bay Sainte Elaine Canal
Bay Blanc Canal
Bay Round Canal
Bay Charlie Canal
Bay de Mangles Canal
Bay Houmas Canal
Bay Portage Canal
Bay Ia Pour Canal
Bay Negresse Canal
Bay Cocodrie Canal
Bay Chauvin Canal
Bay Bourbeaux Canal
Moss Bay Canal
Little Bay Jean Canal
Oyster Bayou Canal
Chinaman Bayou Canal
Chinois Pass Canal
Deer Cut Canal
Coupe Creuse Canal
Fausse Pass Felicity Canal
Lake Felicity Canal
Lake Chinaman Canal
Lake Decade Canal
Lake Jo Diable Canal
Lake Le Vaste Canal
Lake Trosclair Canal
Bayou Seven Canal
Bayou Point d'Ours Canal
Bayou Pierre Canal
Bayou Rosa Canal
Bayou Terrebonne Canal
Bayou Terrebonne Channel
Bayou Petit Caillou Canal
Bayou Grand Caillou Canal
Bayou Pointe au Chien Canal
Bayou Dularge Canal
Bayou Black Canal
Bayou Sale Canal
Bayou Cane Canal
Bayou Chauvin Canal
Bayou Du Large Canal
Bayou Pelton Canal
Bayou Sauvage Canal
Bayou Blue Canal
Bayou Gregoire Canal
Bayou Lafourche Canal
Grand Bayou Blue Canal
Bayou Pierre et Lac Canal
Lake Jesse Canal
Lockport Canal
Larose Canal
Cut Off Canal
Houma Navigation Canal
Gulf Intracoastal Waterway
Tambour Cutoff Canal
Bodwin Cutoff Canal
Wine Island Pass Canal
Caillou Pass Canal
Timbalier Pass Canal
Belle Pass Canal
Pass Barre Canal
Pass Fourchon Canal
Pass la Poule Canal
Coupe Noirelle Canal
Coupe Nouvelle Canal
Old Camp Pass Canal
Trinity Bay Canal
Bay Lost Reef Canal
Bay Coon Roads Canal
Bay Sainte Elaine Canal
Bay Blanc Canal
Bay Round Canal
Bay Charlie Canal
Bay de Mangles Canal
Bay Houmas Canal
Bay Portage Canal
Bay Ia Pour Canal
Bay Negresse Canal
Bay Cocodrie Canal
Bay Chauvin Canal
Bay Bourbeaux Canal
Moss Bay Canal
Little Bay Jean Canal
Oyster Bayou Canal
Chinaman Bayou Canal
Chinois Pass Canal
Deer Cut Canal
Coupe Creuse Canal
Fausse Pass Felicity Canal
Lake Felicity Canal
Lake Chinaman Canal
Lake Decade Canal
Lake Jo Diable Canal
Lake Le Vaste Canal
Lake Trosclair Canal
Bayou Seven Canal
Bayou Point d'Ours Canal
Bayou Pierre Canal
Bayou Rosa Canal

23.71
23.15
25.33
25.89
25.55
25.28
29.63
29.35
25.25
25.83
26.81
28.35
26.51
26.44
25.81
29.87
29.47
26.41
29.52

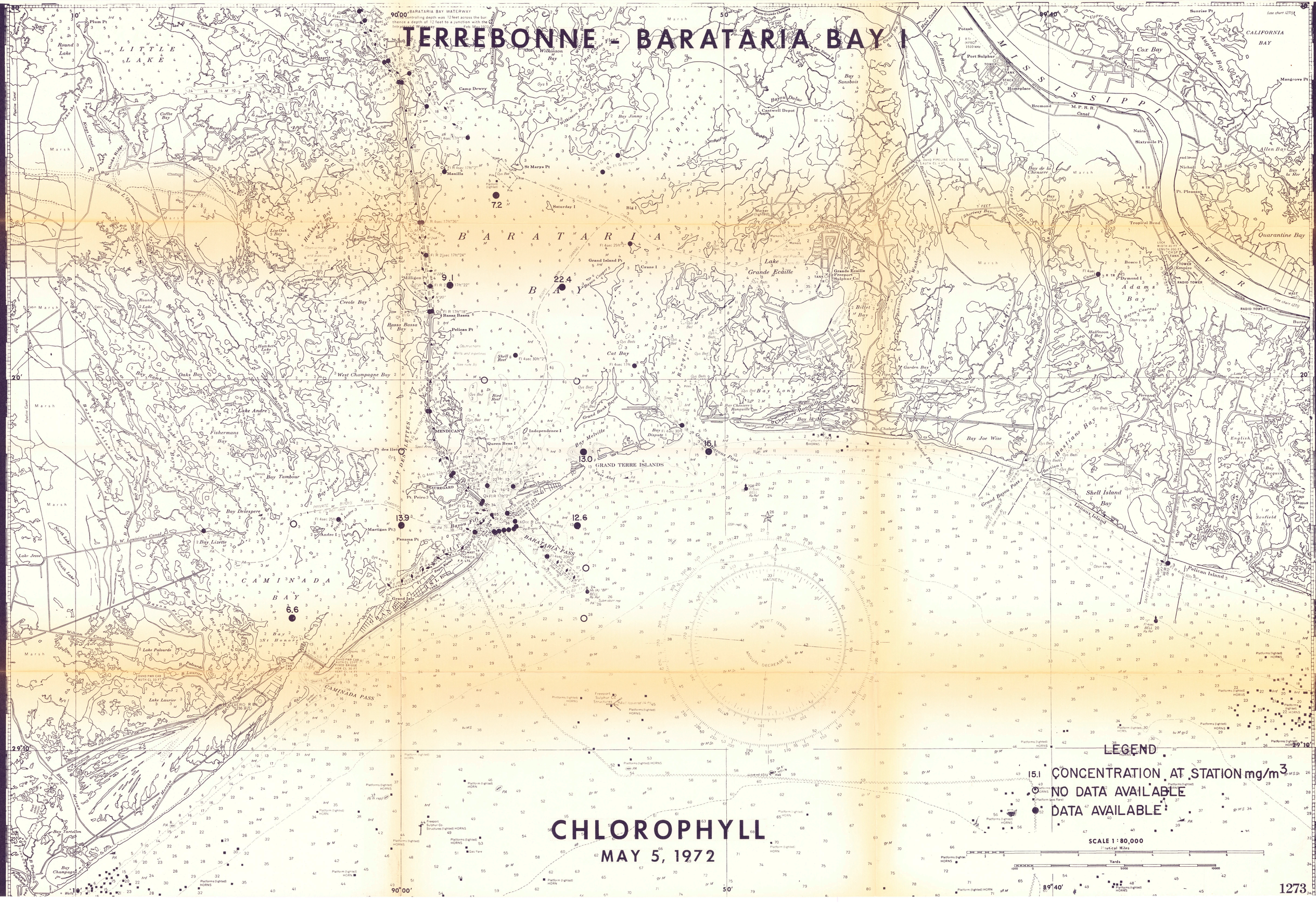
SALINITY
MAY 5, 1972
1000 CDT

LEGEND
26.51 SALINITY AT STATION ‰
NO DATA AVAILABLE
DATA AVAILBLE

SCALE 1 : 80,000

1274

TERREBONNE - BARATARIA BAY I


BARATARIA BAY WATERWAY
controlling depth was 12 feet across the bar,
thence a depth of 12 feet to a junction with the
Intracoastal Waterway
Feb. 1972
BARATARIA BAY
GRAND TERRE ISLANDS
CAMINADA BAY
LITTLE LAKE
Lake Grande Ecaille
Bay Long
Bay Joe Wise
Shell Island Bay
Pelican Island
Quarantine Bay
Adam Bay
Bay Batiste
Bay Rondelet
Bay Melville
Bay Dispute
Bay Chaland
Bay Sansbois
Bay Tambour
Bay Delesperre
Bay Tartellon
Bay Champagne
Bay Jacquet
Bay Jacquin
Bay Rambo
Bay Courant
Bay la Mer
Bay de la Chenieres
Bay Chenieres Ronquille
Bay Coquette
Bay Pass
Bay Jimmy
Bay Dulac
Bay Ronquille
Bay Boudreaux
Bay Marcel
Bay Thunder
Bay Rigaud
Bay Laurier
Bay Palourde
Bay St Honore
Bay Bastian
Bay Coquette
Bay Courant
Bay Rambo
Bay Jacquin
Bay Jacque
Bay Tartellon
Bay Champagne
Bay Tambour
Bay Delesperre
Bay Dauphin
Bay Batiste
Bay Sansbois
Bay Dulac
Bay Jimmy
Bay Ronquille
Bay Melville
Bay Dispute
Bay Chaland
Bay Courant
Bay Rambo
Bay Jacquin
Bay Bastian
Bay Coquette
Bay Pass
Bay Boudreaux
Bay Marcel
Bay Thunder
Bay Rigaud
Bay Laurier
Bay Palourde
Bay St Honore
Bay Champagne
Bay Tartellon

TERREBONNE - BARATARIA BAY I

BARATARIA BAY WATERWAY
controlling depth was 12 feet across the bar,
thence a depth of 12 feet to a junction with the
Intracoastal Waterway, Feb. 1972

TEMPERATURE

MAY 5, 1972
1200 CDT

LEGEND
23.7 TEMPERATURE AT STATION °C
NO DATA AVAILABLE
DATA AVAILABLE

SCALE 1 : 80,000
Nautical Miles
Yards

1273

TERREBONNE – BARATARIA BAY I

HOUMA NAVIGATION CANAL
The controlling depth was 14 feet through Cat Island Pass: thence 12 feet from the entrance of the improved channel in Terrebonne Bay (29°05'33"N. 90°34'18"W.) to the highway bridge in 29°34'05"N. 90°42'55"W. thence 11 feet to a junction with the Intracoastal Waterway. Aug. 1970

BAYOU LAFOURCHE
The controlling depth was 12 feet for a width of 300 feet in the Belle Pass channel; thence 11 feet to Bayou Lafourche; thence 8 feet to Golden Meadow; thence 6 feet to the Intracoastal Waterway at Larose; thence 5 feet to Thibodaux; thence closed by vegetation. The old entrance through the jetties is closed by a dam. Apr. 1969-Aug. 1972

LAKE FELICITY
LAKE BARRE
OLD LADY LAKE
FORMATION ISLANDS
JACKO BAY
LAKE RACCOURCI
LITTLE LAKE
PHILO BRICE IS
TERREBONNE BAY
TIMBALIER BAY
LAKE PELTO
ISLES DERNIERES
PELICAN LAKE
Bull Islands
Pelican Islands
Timbalier Island
Caminada-Moreau Headland
Caminada Pass
Wine Island Pass
Trinity Bay
Bay Blanc
Bay Round
Bay Coquette
Bay Saint Elaine
Bay Coon Roads
Bay Charlo
Bay Sale
Bay Lost Reef
Bay Negresse
Bay Gardenia
Bay Hourbeux
Bay la Pour
Bay Tambour Cutoff
Bay Chaland
Bay Little Bay Jean
Bay Touchet
Bay Moss
Bay Pierre Part
Bay Grand Caillou
Bay Petit Caillou
Bay Terrebonne
Bay Boudreau
Bay Decade
Bay Point au Fer
Bay Toulouse
Bay Junop
Bay Wilson
Bay Dularge
Bay Gardenia
Bay Pierre Part
Bay Grand Caillou
Bay Petit Caillou
Bay Terrebonne
Bay Boudreau
Bay Decade
Bay Point au Fer
Bay Toulouse
Bay Junop
Bay Wilson
Bay Dularge
Bayou Terrebonne
Bayou Petit Caillou
Bayou Grand Caillou
Bayou Pierre Part
Bayou Dularge
Bayou Gardenia
Bayou Point au Fer
Bayou Toulouse
Bayou Junop
Bayou Wilson
Bayou Lafourche
Bayou Blue
Bayou Terrebonne
Bayou Petit Caillou
Bayou Grand Caillou
Bayou Pierre Part
Bayou Dularge
Bayou Gardenia
Bayou Point au Fer
Bayou Toulouse
Bayou Junop
Bayou Wilson
Lake Tambour
Lake Chien
Lake Jesse
Lake Saint Jean Baptiste
Lake Felicity
Lake Barre
Lake Raccourci
Lake Pelto
Lake Terrebonne
Lake Gardenia
Lake Point au Fer
Lake Toulouse
Lake Junop
Lake Wilson
Lake Dularge